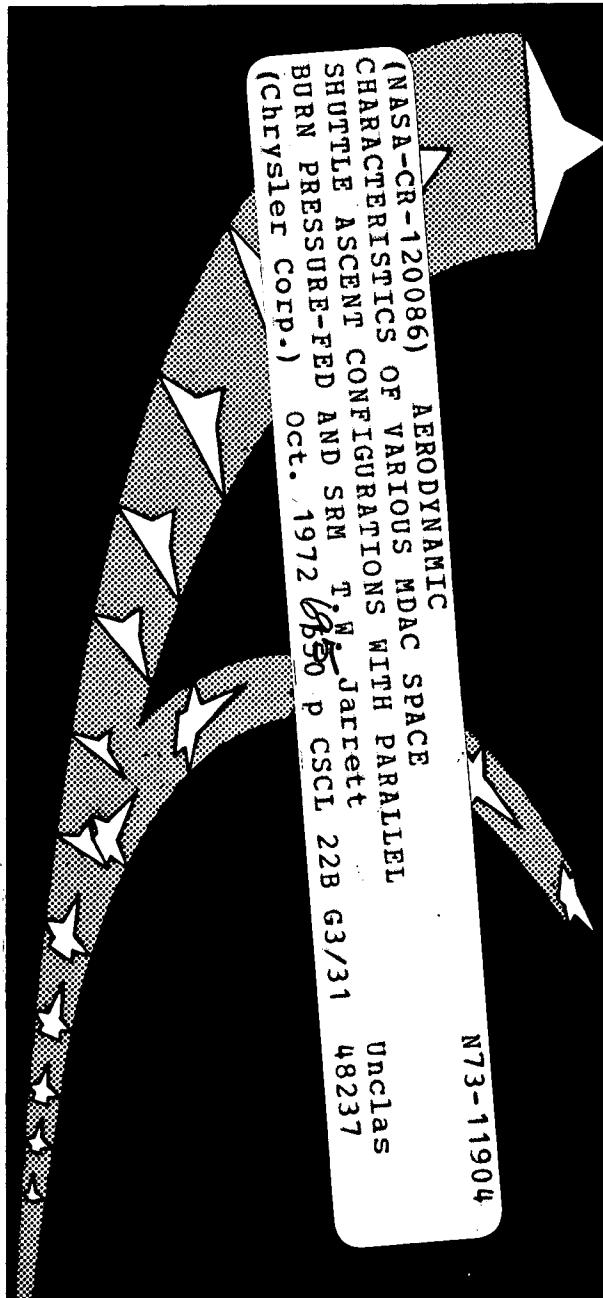


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DMS-DR-1230
CR-120,086
OCTOBER 1972



SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER

SPACE DIVISION  CHRYSLER
CORPORATION

-SPACE SHUTTLE-

AERODYNAMIC CHARACTERISTICS OF VARIOUS MDAC SPACE SHUTTLE ASCENT CONFIGUR- ATIONS WITH PARALLEL BURN PRESSURE-FED AND SRM BOOSTERS

VOLUME IV ASCENT CONFIGURATION PLUME STUDIES AND MODEL BUILDUP

by



This document should
be referenced as
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DMS-DR-1230
VOLUME IV
CR-120,086
OCTOBER, 1972

SADSAC/SPACE SHUTTLE

WIND TUNNEL TEST DATA REPORT

CONFIGURATION: MDAC Pressure Fed and SRM Parallel Burn Ascent Configurations

TEST PURPOSE: To Define the Aerodynamic Characteristics of an Ascent Configuration, the Individual Component Contribution, Relative Orbiter and Booster Position and Interference Effects

TEST FACILITY: MDAC Aerophysics Lab. 4 Foot Trisonic Wind Tunnel

TESTING AGENCY: MDAC (W)

TEST NO. & DATE: S-222; 2 Dec. 1971 - 18 Jan. 1972, 25 Jan. 1972 - 8 Feb. 1972

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AMENDMENT 174

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This report has been prepared by Chrysler Corporation Space Division under a Data Management Contract to the NASA. Chrysler assumes no responsibility for the data presented herein other than its display characteristics.

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AERODYNAMIC CHARACTERISTICS OF VARIOUS MDAC SPACE SHUTTLE
ASCENT CONFIGURATIONS WITH PARALLEL BURN PRESSURE-FED
AND SRM BOOSTERS ($M = 0.4 - 4.5$)

By

T. W. Jarrett

INTRODUCTION

Various space shuttle ascent configurations were tested in the MDAC Aerophysics 4 x 4 Ft. Trisonic Wind Tunnel. The models were 0.6 percent scale. The ascent configurations consisted of a NASA/MSC 040A orbiter in combination with various H0 centerline tank and booster geometries. The purposes of the tests were to determine the aerodynamics of the ascent configurations, the aerodynamic interference between components and its effect on orbiter aerodynamics, and to determine orbiter aileron effectiveness.

The model was sting mounted with either a single internal balance (in the orbiter H0 tank) or dual internal balances (one in the orbiter and one in the orbiter H0 tank). With the dual balance setup, three types of runs were made; one with tank alone on the tank balance, one with tank and two attached boosters on the tank balance, and one with the tank and one booster attached on the tank balance and the other booster isolated on a separate sting but in proximity to the tank and orbiter. In addition to the 6-component force and moment balance data, base pressure data were taken for the boosters, the tank and the orbiter. Angle of attack data included α sweeps at 0° and 6° β (the latter involving a knuckle change) and β sweeps at 0° and 6° α . Through the use of a remote roll device it was usually possible to get both an α sweep and a β sweep in a single run.

INTRODUCTION (Continued)

The report consists of five volumes arranged in the following manner:

- Volume I Ascent configurations with centerline
 HO tanks T₁ and T₂
- Volume II Ascent configurations with centerline
 HO tank T₃
- Volume III Ascent configurations with centerline
 HO tank T₄
- Volume IV Ascent configuration plume studies
 and configuration buildup
- Volume V Orbiter alone, Tanks alone and
 Boosters alone

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; V/a
p		pressure; N/m ² , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$, N/m ² , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
v		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m ³ , slugs/ft ³

Reference & C.G. Definitions

A _b		base area; m ² , ft ²
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
\bar{c}_{REF}	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m ² , ft ²
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{\text{REF}}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS_b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS_b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{\text{REF}}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS_b}$
C_l	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS_b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D

ADDITIONS TO NOMENCLATURE

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
c_L^2	CLSQR	lift coefficient squared.
δ_a	AILRON	aileron, total aileron deflection angle, degrees, (left aileron-right aileron)/2.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_r	RUDDER	rudder, surface deflection angle, positive deflection, trailing edge to the left; degrees
δ_{rf}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{rf} = (\delta_{rL} + \delta_{rR})/2$, positive deflection; degrees.

CONFIGURATIONS INVESTIGATED

The wind tunnel models were 0.6 percent scale models and included one orbiter configuration, four tank configurations, and seven booster configurations. The orbiter centerline H0 propellant tanks included variations in diameter (302 and 325 in.), nose cone angle (10° and 15°), and axial position (120 inch travel). Of the boosters, three were solid rocket motors with the remainder being pressure fed boosters. The pressure fed boosters included variations in diameter (206 and 248 inch), nose cone angle (15° and 20°) and base flare (5° and 15°). The solid rocket motors included variations in diameter (156 and 120 in.) and base flare (0° and 15°) for the 156 in. motor.

In addition, simulated rocket plumes were tested at $M = 1.5$ and 2.2 for both pressure fed and solid rocket motor boosters. These plumes were made up of three solid aluminum bodies each of which represented an envelope of individual engine plumes for the orbiter and each booster. These envelopes were generated by taking the outermost plume boundary of the outermost engine for each component and rotating this boundary about the null thrust vector of the component (orbiter or booster). The individual engine plumes were generated at MSC with the plume boundary defined by a method of characteristics solution with the flow field originating at the exit plane, and the effects of the external flow on the boundary calculated by Newtonian impact theory.

The contours of the various plumes tested are defined in Table 4 and Figure 43 through 46. The matrix of plume testing was as follows:

<u>CONFIGURATION</u>	<u>BOOSTER PLUME</u>	<u>ORBITER PLUME</u>	<u>M_{TEST}</u>
01T ₁ B ₁	LOX/PROP $M = 2.5$	4 ENG. J2S $M = 2.5$	2.2
01T ₁ B ₁	LOX/PROP $M = 1.5$	3 ENG. HiPc $M = 1.5$	1.5
0 ₁ T ₁ B ₁	LOX/PROP $M = 1.5$	3 ENG. HiPc $M = 1.5$	2.2
0 ₁ T ₃ B ₆	156" SRM $M = 1.5$	3 ENG. HiPc $M = 1.5$	1.5
0 ₁ T ₃ B ₆	156" SRM $M = 2.2$	3 ENG. HiPc $M = 2.2$	2.2
0 ₁ T ₄ B ₇ A ₁₋₄	120" SRM $M = 1.5$	3 ENG. HiPc $M = 1.5$	1.5
0 ₁ T ₄ B ₇ A ₁₋₄	120" SRM $M = 2.2$	3 ENG. HiPc $M = 2.2$	2.2

Symbols for Orbiter Configuration:

<u>Symbol</u>	<u>Description</u>
O1	W1B1ELV2R2P1M1C0
W1	Wing
B1	Body
E1	Elevon
V1	Centerline vertical (Replaces V2R2)
V2	Centerline vertical
V _{OFF}	No centerline vertical
C0	Canopy
R1	Rudder for V1
R2	Rudder for V2
P1	ACPS Engine Pod
M1	OMS Engine Pod
C1	Cupola
C2	Canopy Off (Replaces C0)

Symbols for Tanks

<u>Symbol</u>	<u>Description</u>
T ()	Tank complete
T () _a	Tank complete at an alternate position with respect to the boosters and orbiter
F1	Fin for T ₄

Symbols for Boosters:

<u>Symbol</u>	<u>Description</u>
B ()	Boosters complete
S	Skirt for booster
F ₄	Fins for B ₄
A	Thrust vectoring fuel tank for B ₇

Symbols for Plumes:

<u>Symbol</u>	<u>Description</u>
+ Plume (2.5)	3 Plumes (Orbiter + 2 Boosters) at M = 2.5
+ Plume (1.5)	3 Plumes (Orbiter + 2 Boosters) at M = 1.5
+ Plume (2.2)	3 Plumes (Orbiter + 2 Boosters) at M = 2.2

TEST FACILITY

The MDAL 4' Trisonic Wind Tunnel facility is a blowdown type operation capable of Mach numbers of 0.2 to 5.0 and Reynolds numbers from approximately 1×10^6 to 2×10^6 per inch. The subsonic and transonic Mach numbers are run in a porous wall test section which is removed for supersonic testing. The supersonic test section utilizes a two dimensional flexible plate nozzle to obtain Mach numbers 1.5 to 5.0. The models are mounted on a sting that is supported from a vertical translating strut with a vertical plane rotating pod having a pitch range of -15° to $+25^\circ$ when no offset adapters are present.

MODELS AND SUPPORT EQUIPMENT

The test models with all of their interchangeable component parts were 0.60 percent of full scale.

The orbiter model had a blended body contoured into a low delta wing. Effects of orbiter position and booster relative to the tank was investigated at two longitudinal locations on the tank (nominal and aft). The orbiter and boosters can be bolted to the tank (T1) in both nominal and aft positions as well as independently mounted from the tank. For the bolted orbiter case, the orbiter balance was inoperative and there were no force or moment data for the orbiter.

Effects of the orbiter control surfaces and control surface deflections were investigated for elevons, ailerons, and rudder with the surfaces deflected and undeflected.

Transition strips of No. 120 carborundum grit were used to insure boundary layer transition from laminar to turbulent flow. These strips were $3/32$ inches wide and were located $3/4$ inches aft of the orbiter nose, $1/2$ inch aft of the booster nose, $1/2$ inch aft of the tank nose, and at 5 percent local chord (both surfaces) on the wings, vertical tails and fins.

To achieve the required test angles of attack and sideslip two straight balance adapters were used in combination with the MDAL 6 degree sting adapter. A straight sting section positioned the model properly in the test section.

Pressure data for the orbiter, tank or the booster were obtained from base and balance cavity pressure pickups that were cantilevered off the sting. Leads for these pickups were routed externally over the model support system and into the tunnel strut. The boosters in the presence of the tank each had a base pressure pickup.

DATA REDUCTION

The data are corrected for such factors as model tares, sting bending and balance deflections, interactions, and bilinearities.

Composite Configurations

1. The orbiter data were reduced about the orbiter MRP using its reference dimensions and about the tank MRP, using orbiter reference dimensions (\bar{c} for longitudinal and b for lateral).
2. The tank data were reduced about the tank MRP using orbiter reference dimensions (\bar{c} for longitudinal and b for lateral).
3. A summation of the orbiter (tank MRP) and tank (tank MRP) data with all data corrected for angular attitudes to the tank body axes.

Orbiter Alone Configurations

1. The orbiter data were reduced about the orbiter MRP using the orbiter reference dimensions (\bar{c} for longitudinal and b for lateral).

Tank Alone Configurations

1. The tank data were reduced about the tank MRP using the orbiter reference dimensions.

Booster Alone Configurations

1. The booster data were reduced about the booster MRP using the orbiter reference dimensions.

Ascent configuration composite tank MRP data, orbiter alone data, tank alone data and booster alone data are presented in this report, with the remaining data on file and available upon request.

Reference quantities used in these data reductions are as follows:

ORBITER

<u>Quantity</u>	<u>Full Scale Dimensions (Reference only)</u>	<u>Model Dimensions</u>
Reference Area (S)	3155.3 Ft ²	16.37 In ²
Reference Span (b)	882 In.	5.292 In
Reference MAC (\bar{c})	609.5 In.	3.657 In
Moment Reference Points	See Figures 13 & 14	

DATA REDUCTION (CONTINUED)

Areas:

Total Base (A_B)	298 Ft^2	1.546 In^2
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TANK

<u>Quantity</u>	<u>Full Scale Dimensions (Reference only)</u>	<u>Model Dimensions</u>
Reference Area (S)	3155.3 Ft^2	16.37 in^2
Reference Length (b)	882 In.	5.292 in.
Reference Length (c)	609.5 In.	3.657 in.
Moment Reference Points	See Figures 13 & 15	

Areas:

Total Base (A_B)/Tank	T1 - 422 Ft^2	2.125 In^2
	T2 - 422 Ft^2	2.125 In^2
	T3 - 518 Ft^2	2.613 In^2
	T4 - 537 Ft^2	2.785 In^2

BOOSTER

<u>Quantity</u>	<u>Full Scale Dimensions (Reference only)</u>	<u>Model Dimensions</u>
Reference Area (S)	3155.3 ft^2	16.37 in^2
Reference Length (b)	882 in.	5.292 in.
Reference Length (c)	609.5 in.	3.657 in.
Moment Reference Points	See Figures 13 & 16 through 19	

DATA REDUCTION (CONTINUED)

Areas:

Total Base (A_B)/Booster	B1	-	901.0 Ft^2	4.539 In^2
	B1S1	-	2125 Ft^2	11.0093 In^2
	B1S2	-	4785 Ft^2	24.7887 In^2
	B2	-	137.8 Ft^2	0.694 In^2
	B2S	-	428 Ft^2	2.158 In^2
	B3	-	902 Ft^2	4.545 In^2
	B4	-	568 Ft^2	2.865 In^2
	B5	-	557 Ft^2	2.883 In^2
	B6	-	95.4 Ft^2	0.481 In^2
	B7	-	79.3 Ft^2	0.408 In^2

TABLE 1.

TEST CONDITIONS
TEST S-222

BALANCE UTILIZED: See Listing on next page.

CAPACITY:

ACCURACY:

COEFFICIENT TOLERANCE:

NF	_____
SF	_____
AF	_____
PM	_____
YM	_____
RM	_____

A set of five horizontal black lines spaced evenly apart.

COMMENTS:

TABLE 1.
TEST CONDITIONS (CONTINUED)

BALANCES UTILIZED

Several balances were required during the test. Listed below are the balances used, their capacity and the corresponding tunnel runs which apply to each.

BALANCES

Orbiter <u>3/4" D.</u>	Tank Balance <u>1" D.</u>
Runs 1-10	#7 DAL
Runs 11-113	-
Runs 114-184	#5 DAL
Runs 185-197	-
Runs 198-270	#58 DAL
Runs 271-420	#58 DAL
Runs 421-424	-
Runs 425-459	-
Runs 460-474	-
Runs 475-569	#58 DAL
Runs 570-646	-

Balance <u>Gage</u>	MK. 31A <u>3/4" D. #7 DAL</u>	MK. 2A <u>3/4" D. #5 DAL</u>	MK. 10 <u>3/4" D. #58 DAL</u>	MK. 7 <u>1" D. #13 NAR</u>	MK. 3C <u>1" D. #11 DAL</u>
<u>Capacity</u>					
NF (each) 2 gages	100 lb.	100 lb.	100 lb.	500 lb.	250 lb.
SF (each) 2 gages	100 lb.	50 lb.	100 lb.	300 lb.	250 lb.
AF	80 lb.	25 lb.	50 lb.	500 lb.	150 lb.
RM	20 in.lb.	60 in.lb.	40 in.lb.	150 in.lb.	150 in.lb.

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHED.	CONTROL DEFLECTION					NO. OF RUNS	MACH NUMBERS							
			a	b	sA	sE	sR		0.4	0.6	0.9	0.95	1.05	1.1	1.5	2.2
RD2121	(ϕ_1) $T_1 B_4$	A	0	0	0	0	0	6	378	377			376	269	273	276
122		A	0	0	0	0	0	1					272			
123		C	D	0	0	0	0	3	378	377			376			
124		A	6	0	0	0	0	3					261	231		239
125	(ϕ_1) $T_1 B_{4L}$ (B_{4R})	A	0	0	0	0	0	4	370		379		274		275	
126		A	6	0	0	0	0	2					233		236	
127		C	D	0	0	0	0	2	380		379		232		237	
128	(ϕ_1) $T_1 (B_{4L}) B_{4R}$	A	6	0	0	0	0	2					232		237	
129	(ϕ_1) $T_1 B_5$	A	6	0	0	0	0	2					249		248	
130		A	6	0	0	0	0	1					208			
131	(ϕ_1) $T_1 B_{5L}$ (B_{5R})	A	6	0	0	0	0	1					246			
132	(ϕ_1) $T_1 (B_{5L}) B_{5R}$	A	6	0	0	0	0	1					247			
133	(ϕ_1) $T_1 B_5$	A	0	0	0	0	0	6	384	382			383	250	252	251
134		C	D	0	0	0	0	3	384	382			383			
135		A	6	0	0	0	0	1					218			
136		C	A	0	0	0	0	1					220			
137	($\phi_1 V_1$) $T_1 B_{5L}$ (B_{5R})	A	0	0	0	0	0	4	382		385		261		262	
138		C	D	0	0	0	0	2	386		385					
139		A	6	0	0	0	0	1					216			
140	($\phi_1 V_1$) $T_1 (B_{5L}) B_{5R}$	A	6	0	0	0	0	1					217			
			7	13	19	25	31	37	43	49	55	61	57		75.76	

COEFFICIENTS:

 α or β

SCHEDULES

IDPVAR(1) | IDPVAR(2) | NDV

TABLE 2. TEST S-222. DATA SET COLLATION SHEET (CONTINUED)

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCDID.	CONTROL DEFLECTION		NO. OF RUNS	MACH NUMBERS												
			a	b		SA	SE	SR	0.4	0.6	0.9	0.95	1.05	1.1	1.5	2.2	2.25	4.5
RD7141	($\phi_1 V_1$) T1	A	0	0	3	399	398		397									
142		O	D	0	0	3	399	398		397								
143		A	0	20	0	3	401	402		400								
144		O	D	20	0	3	401	402		400								
145		A	0	0	10	3	405	404		403								
146		O	D	0	10	3	405	404		403								
147	(ϕ_1) T1	A	0	0	0	8	360	361	362	363	364	365	260	263				
148		O	D	0	0	6	360	361	362	363	364	365						
149		A	6	0	0	2							234	235				
150	(ϕ_1) T2 B1	A	0	0	0	3	415	416		417								
151		O	D	0	0	3	415	416		417								
152		A	6	0	0	2							207	223				
153	(ϕ_1) T2 B1L ($B_1 R$)	A	6	0	0	1							214					
154	(ϕ_1) T2 B2	A	6	0	0	1							204					
155	(ϕ_1) T2 B3	A	6	0	0	1							203					
156	(ϕ_1) T2 B4	A	0	0	0	3	420	419		418								
157		O	D	0	0	3	420	419		418								
158		A	6	0	0	1							200					
159	(ϕ_1) T2 ($B_1 L$) B1R	A	6	0	0	1							222					
160	($\phi_1 V_1$) T2 B5	A	0	0	0	3	408	407		406								
i		?	13	19	25	31	37	43	49	55	61	67	75	76				

COEFFICIENTS:

 α or β

SCHEDULES

IDPVAR(1) IDPVAR(2) NDV

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.	CONTROL DEFLECTION					NO. OF RUNS	MACH NUMBERS						
			a	b	sA	sE	sR		0.4	0.6	0.9	0.95	1.05	1.1	1.5
RD761	($\phi_1 v_1$) T2 B5	0	D	0	0	0	0	3	408	407			406		
162	($\phi_1 v_1$) T2A B5	A	0	/C	0	0	0	3	409	410			411		
163	↓	0	D	0	0	0	0	3	409	410			411		
164	(ϕ_1) T2A B1	6	A	0	0	0	0	1						211	
165	↓	A	0	0	0	0	0	3	414	413			412		
166	↓	0	D	0	0	0	0	3	414	413			412		
167	↓	A	6	0	0	0	0	2					209	210	
168	(ϕ_1) T2A B1L (B1R)	A	6	0	0	0	0	1						213	
169	(ϕ_1) T2A (B1L) B1R	A	6	0	0	0	0	1						212	
170	(ϕ_1) T2	A	0	0	0	0	0	2	367		366				
171	↓	0	D	0	0	0	0	2	367		366				
172	(ϕ_1) T2A	A	0	0	0	0	0	2	368		369				
173	↓	0	D	0	0	0	0	2	368		369				
174	(ϕ_1) T3 B1	A	0	0	0	0	0	6	333	329	331	277	278	279	
175	↓	0	A	0	0	0	0	3	334	330	332				
176	↓	A	6	0	0	0	0	3				309	308	310	
177	(ϕ_1) T3 B1L (B1R)	A	0	0	0	0	4		335		336	281	280		
178	↓	0	D	0	0	0	0	2		335		336			
179	↓	A	2	0	0	0	0	2				312	311		
180	(ϕ_1) T3 (B1L) B1R	A	6	0	0	0	0	4		328		327	313	314	
1	7	13	19	25	31	37	43	49	55	61	67			75.76	

COEFFICIENTS:

 α or β
SCHEDULES

IDPVAR(1) IDPVAR(2) NDV

TABLE 2. TEST S-212 DATA SET COLLATION SHEET (CONTINUED)

□ PRETEST

EPOSTTEST.

DATA SET IDENTIFIER	CONFIGURATION	SCLUB.	CONTROL DEFLECTION						MACH NUMBERS								
			α	β	SA	SE	SF	0.4	0.6	0.9	0.95	1.05	1.1	1.5	2.2	2.25	4.5
RR2/181	(φ ₁) T3 (B1L) B1R	A	6	0	0	0	0	1									
182	(φ ₁) T3 B2	A	0	0	0	0	0	5	350	351	352	352	352	296	297		
183	↓	D	0	0	0	0	0	3	350	351	352	352	352				
184	(φ ₁) T3 B2L (B2R)	A	0	0	0	0	0	4	354	353	353	353	353	294	294P		
185	↓	D	0	0	0	0	0	2	354	353	353	353	353				
186	↓	A	6	0	0	0	0	2						300	301		
187	(φ ₁) T3 (B2L) B2R	A	6	0	0	0	0	2						303	302		
188	(φ ₁) T3 B3	A	0	0	0	0	0	6	356	355	355	355	355				
189	↓	D	0	0	0	0	0	3	356	355	355	355	355				
190	↓	A	6	0	0	0	0	2						357	357		
191	(φ ₁) T3 B3L (B3R)	A	0	0	0	0	0	2						317	318		
192	↓	D	0	0	0	0	0	2						358	358		
193	↓	A	6	0	0	0	0	1						319	319		
194	(φ ₁) T3 (B3L) B3R	A	6	0	0	0	0	1						320	320		
195	(φ ₁) T3 B4	A	0	0	0	0	0	1						1	1		
196	↓	A	0	0	0	0	0	1						2	2		
197	↓	A	0	20	0	0	0	1						3	3		
198	↓	A	0	0	0	10	2							4	4		
199	(φ ₁) T3 B4L (B4R)	A	0	0	0	0	4		338		337	337	337	282	283		
2A1	↓	D	0	0	0	0	2		338		337	337	337				

COEFFICIENTS:

SCHEDULES

COEFFICIENTS: IDPVAR(1) IDPVAR(2) NDV

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.	CONTROL DEFLECTION		MACH NUMBERS							NO. OF RUNS					
			a	b	SA	SE	SR	0.4	0.6	0.9	0.95	1.05	1.1	1.5	2.2	2.25	4.5
RD7IA2	(ϕ_1)T3 B4L (B_4R)	A	6	0	0	0	0	2							307	306	
IA3	(ϕ_1)T3 (B_4L)B4R	A	6	0	0	0	0	2							307	305	
IA4	(ϕ_1)T3 B4 F4	A	0	0	0	0	0	2							6	7	
IA5	(ϕ_1 V1) T3 B5	A	0	0	0	0	0	6	341	336	340	292	291	293			
IA6		D	0	0	0	0	0	3	341	336	340						
IA7		A	6	0	0	0	0	2							322	321	
IAS	(ϕ_1 V1) T3 B5L (B_5R)	A	0	0	0	0	0	4	342		343	295	294				
IA9		D	0	0	0	0	0	2	342		343						
IB1		A	6	0	0	0	0	1							324		
IB2	(ϕ_1 V1)T3 (B_5L)B5R	A	6	0	0	0	0	1							325		
IB3	(ϕ_1)T3	A	0	0	0	0	0	8	349	348	347	346	345	344	290	289	
IB4		D	0	0	0	0	0	6	349	348	347	346	345	344			
IB5		A	6	0	0	0	0	2							316	315	
IB6	(ϕ_1 V1)T1B5	O	D	0	0	0	0	3				558	563	566			
IB7	(ϕ_1 V1).T1	A	0	20	0	0	0	3				557	562	567			
IB8		O	D	20	0	0	0	3				557	562	567			
IB9	(ϕ_1 V1)T2 B5	A	0	0	0	0	0	3				559	564	565			
IC1	(ϕ_1)T1 B6	A	0	0	0	0	0	2	496			556					
IC2		O	D	0	0	0	0	2				556					
IC3		A	0	20	0	0	0	6	495	494		493	555	557	569		

COEFFICIENTS:

 a or b
SCHEDULES

IDPVAR(1)|IDPVAR(2)|NDV

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHED.	CONTROL DEFLECTION				NO. OF RUNS	MACH NUMBERS								
			a	b	sA	sE	sR	0.4	0.6	0.90	0.95	1.05	1.1	1.5	2.2	
RD71CY	(ϕ_1) T1B6	0 D	20	0	0	0	0	6	495	494			493	555	554	569
IC5																
IC6	($\phi_1 Y_1$) T1B5	A 0	0	0	0	0	0	3					558	563	566	
IC7	(ϕ_1) T4 B7A1-4	A 0	0	0	0	0	0	6	477	476			475	544	542	539
IC8		0 D	0	0	0	0	0	6	477	476			475	544	542	539
IC9																
ID1		A 0	20	0	0	0	0	6	506	507			504	517	520	527
ID2		0 D	20	0	0	0	0	6	478	479			470	550	543	538
ID3	A 6	20	0	0	0	0	0	6	511	508			509	516	521	526
ID4	A 0	0	0	10	0	0	0	6	483	482			481	551	544	537
ID5	O D	0	0	10	0	0	0	6	483	482			481	551	544	537
ID6	V	A 6	0	0	10	0	0	6	512	513			514	515	522	525
ID7	(ϕ_1) T4 B7-4	A 0	0	0	0	3	489	488					487			
ID8	↓	O D	0	0	0	3	489	488					487			
ID9	(ϕ_1) T4	A 0	0	0	0	6	490	491					492	543	547	534
IE1		O D	0	0	0	6	490	491					492	543	547	534
IE2		E 0	0	0	0	1										
IE3	↓	E 6	0	0	0	1										
IE4	(ϕ_1) T4 B7A1-5	A 0	0	0	0	6	484	485					486	552	545	540
IE5	↓	O D	0	0	0	6	484	485					486	552	545	540
		i	7	13	19	25	31	37	43	49	55	61	67	73	76	

COEFFICIENTS:

 $E = -10^6 \angle 30^\circ$ a or β

SCHEDULES

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

□ PRETEST

	1	7	13	19	25	31	37	43	49	55	61	67	75	76
COEFFICIENTS:	= IDPVAR(1) IDPVAR(2) NDV

α or β
SCHEDULES

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

TANK & BOOSTERS @ TANK MRC

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCUB.		CONTROL DEFLECTION		NO. of RUNS	MACH NUMBERS
		α	β	1	2		
RD7201	Note: SAME AS RD71XX						
202	DATA SETS						
203	RD71XX						
204							
205							
206							
207							
208							
209							
210							
211							
212							
213							
214							
215							
216							
217							
218							
219							
220							
1	7	13	19	25	31	37	43
2	49	55	61	67	73	79	85
3	ALPHA	BETA	MACH	7	7	7	7
4	CY	FA	CAF	FBL	FLM	FYN	7
5	COEFFICIENTS:						
6	a or b						
7	SCHEDULES						

CY, FA, CAF, FBL, FLM, FYN, MACH, ALPHA, BETA, 7
 COEFFICIENTS:
 a or b
 SCHEDULES

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

ORBITER @ TANK MRC

 PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCIIU.		CONTROL DEFLECTION	NO. of RUNS	MACH NUMBERS
		a	b			
RD7301	NOTE: SAME AS 302 DATA SETS					
302						
303	RD71XX					
304						
305						
306						
307						
308						
310						
311						
312						
313						
314						
315						
316						
317						
318						
319						
320						
1	7	13	19	2.5	31	37
2	4	10	16	4.3	49	55
3	6	12	18	6.1	67	75.76
4	8	14	20	8.3	APPHA	7
5	10	16	22	10.3	BETHA	7

C_N, C_Y, C_A, C_{AF}, C_{BL}, C_M, C_{YN}, MACH, BETHA
 COEFFICIENTS: IDPVAR(1)|IDPVAR(2)|NDV

a or b
SCHEDULES

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

COMPOSITE @ TANK MRC

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHED.		CONTROL DEFLECTION	NO. OF RUNS	MACH NUMBERS
		α	β			
RD7401	Note: Same AS DATA SETS					
402						
403	RD71XX					
404						
405						
406						
407						
408						
409						
410						
411						
412						
413						
414						
415						
416						
417						
418						
419						
420						
1	7	13	19	25	31	37
2	49	55	61	67	73	75.76

CY, CY, CA, CAF, ICBL, FLM, FLYN, MACH, ALPHAB, BETA
COEFFICIENTS: IDPVAR(1)|IDPVAR(2)|NDV
 α or β

SCHEDULES

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

COMPOSITE @ TANK MR

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCUB.	CONTROL DEFLECTION					NO. OF RUNS	MACH NUMBERS								
			a	b	SA	SE	SR		0.4	0.6	0.9	0.95	1.05	1.1	1.5	2.2	2.25
RDT501	$\phi_1 T_1 B_1$	A	0	0	0	0	0	7	77	78			79	16	11	421	21
502		A	6	0	0	0	0	6	95	94			93	25	26		33
503		A	6	0	0	0	0	1								197	
504		O	B	0	0	0	0	4	77	78				16	11		
505		O	D	0	0	0	0	1								421	
506		O	A	0	0	0	0	1					80				
507	$\phi_1 T_1 B_1 + P_{URE}(2.5)$	A	0	0	0	0	0	2					185	422			
508		A	6	0	0	0	0	1					196				
509		A	0	20	0	0	0	2					186	423			
510		A	0	0	0	10	0	2					187	424			
511		O	D	0	0	0	0	1					422				
512		O	D	20	0	0	0	1					423				
513		O	D	0	0	10	0	1									
514	$\phi_1 T_1 B_2$	A	0	0	0	0	6	84	85	86	15	12		23			
515		A	6	0	0	0	0	6	87	88	89	24	27		32		
516	$\phi_1 T_1 B_2 S$	A	0	0	0	0	5	83	82	81	14	13					
517		A	6	0	0	0	0	6	92	91	90	28	28		31		
518	$\phi_1 T_3 B_2$	A	0	0	0	0	1				49						
519		A	6	0	0	0	3				48	39	38				
520	$\phi_1 T_3 B_4$	A	0	0	0	0	6	71	72	73	51	56	59				
			1	7	13	19	25	31	37	43	49	55	61	67	75	76	

CN CY CA CAF CBL FIM FYN MACH ALPHA BEITA 7
COEFFICIENTS: IDPVAR(1) IDPVAR(2) NDV

α or β
SCHEDULES

TABLE 2. TEST S-222. DATA SET COLLATION SHEET (CONTINUED)

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCRU.	CONTROL DEFLECTION					NO. OF RUNS	MACH NUMBERS							
			a	b	cA	dE	eR		0.4	0.6	0.9	0.95	1.05	1.1	1.5	
RDT521	$\phi_1 T_3 B_4$		0	A	0	0	0	6	71	72			73	51	56	60
522			A	6	0	0	0	6	99	100			101	46	42	35
523			C	B	0	0	0	6	104	103			102	45	43	36
524			A	0	20	0	0	6	69	67			68	53	54	61
525			A	0	0	0	10	6	70	64			63	52	55	62
526	$\phi_1 T_3 B_4 F_4$		A	0	0	0	0	6	72	75			74	50	57	58
527	↓		A	6	0	0	0	6	98	97			96	47	40	37
528	$\phi_1 T_1 B_1$		A	0	0	0	0	2					425	431		
529			O	D	0	0	0	2					425	431		
530			A	0	20	0	0	2					426	432		
531			O	D	20	0	0	2					426	432		
532			A	0	10	0	0	1					427			
533			O	D	10	0	0	1					427			
534			A	0	-10	0	0	1					428			
535			O	D	-10	0	0	1					428			
536			A	0	0	10	2						429	430		
537			O	D	0	0	10	2					429	430		
538	$\phi_1 T_1 B_1 + P_{LUME}(1.5)$		A	D	0	0	0	2					434	437		
539			O	D	0	0	0	2					434	437		
540	↓		A	0	20	0	0	2					433	438		
1			7		13		19	25	31	37	43	49	55	61	67	75

COEFFICIENTS:

 α OR β
SCHEDULES

IDPVAR(1) IDPVAR(2) NDV

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

□ PRETEST

EPOSTTEST

COEFFICIENTS:

20

SCHEDULES

COEFFICIENTS:

20

SCHEDULES

COEFFICIENTS:

20

SCHEDULES

COEFFICIENTS:

四〇

SCHEDULES

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCUD.	CONTROL DEFLECTION					NO. OF RUNS	MACH NUMBERS									
			α	β	SA	SE	Sr		C.4	0.6	0.90	0.95	1.05	1.1	1.5	2.2	2.25	4.5
RD7561	$\phi 173B6 + P_{\text{run}}(1.5)$	O	D	C	C	/0	/0	1										
562	$\phi 173B6 + P_{\text{run}}(2.2)$	A	O	O	O	O	O	1										
563		O	D	O	O	O	O	1										
564		A	O	20	O	O	O	1										
565		O	D	20	O	O	O	1										
566		A	O	O	10	O	O	1										
567		O	D	O	O	10	O	1										
568	T1B5	A	O	-	-	-	-	2										
569		O	D	-	-	-	-	2										
570	T1B6	A	O	-	-	-	-	6	471	470								
571		O	D	-	-	-	-	6	471	470								
572	$\phi 174B7A1-4$	A	O	O	O	O	O	4										
573		O	D	O	O	O	O	4										
574	$\phi 174B7A1-4 + P_{\text{run}}(1.5)$	A	O	O	O	O	O	1										
575		O	D	O	O	O	O	1										
576		A	O	20	O	O	O	1										
577		O	D	20	O	O	O	1										
578		A	O	O	O	10	O	1										
579		O	D	O	O	10	O	1										
580	$\phi 174B7A1-4 + P_{\text{run}}(2.2)$	A	C	C	O	O	O	1										
1	7	13	19	25	31	37	43	49	55	61	67						75.76	

COEFFICIENTS:

 a or b

SCHEDULES

IDPVAR(1)|IDPVAR(2)|NDV

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCIID.	CONTROL DEFLECTION						NO. OF RUNS	MACH NUMBERS						
			a	b	SA	SE	SR	S'RF		0.7	0.6	0.4	0.95	1.05	1.1	1.5
RD7581	$\phi_1 T4 B7A1-4 + P_{run}(2.2)$	0	D	0	0	0	0	0	1							577
582		A	0	20	0	0	0	0	1							575
583		O	D	20	0	0	0	0	1							575
584		A	C	C	0	10	0	0	1							576
585		O	D	C	0	10	0	0	1							576
586	$\phi_1 T4 F1 B7A1-4$	A	O	O	0	0	0	0	2							597
587		O	D	O	0	0	0	0	2							597
588	$T4 B7A1-4$	A	O	-	-	-	-	-	6	474	463	462	600	573	604	
589		O	D	-	-	-	-	-	6							
590	$T4 F1 B7A1-4$	A	O	-	-	-	-	-	4	645	644	646		599		
591		O	D	-	-	-	-	-	4	645	644	646		599		
592	$\phi_1 V1 T4 B7A1-4$	A	O	O	0	0	0	0	2							
593		O	D	O	0	0	0	0	2							
594		A	O	O	0	10	0	2								
595		O	D	O	0	10	0	2								
596		A	O	O	0	0	20	2								
597		O	D	O	0	20	2									
598		A	O	O	10	20	2									
599		O	D	O	10	20	2									
5A1	$\phi_1 V1 T4 B7A1-4 + P_{run}(1.7)$	A	O	O	0	0	0	0	1							582
1		7		13	19	25	31	37	43	49	55	61	67			7576

COEFFICIENTS:

 α or β

SCHEDULES

IDPVAR(1) IDPVAR(2) NDV

TABLE 2. TEST DATA SET COLLATION SHEET (CONTINUED)

□ PRETEST

ESTOPIER

COEFFICIENTS:

SCHEDULES

⇒ |IDPVAR(1)| IDPVAR(2) | NDV

TABLE 2. TEST S-222. DATA SET COLLATION SHEET (CONTINUED)

**RD76XX TANK @₁ TANK MRC
RD77XX ORBITER@₁ ORBITER MRC**

**□ PRETEST
□ POSTTEST**

DATA SET IDENTIFIER	CONFIGURATION	SCINU.	CONTROL DEFLECTION		NO. of RUNS	MACH NUMBERS									
			α	β		0.4	0.6	0.9	0.95	1.05	1.1	1.5	2.2	2.25	4.5
RD7601	T1		A	0	- - -	4	105			107	190	193			
602	T2		A	0	- - -	4	109			108	191	192			
603	T3		A	0	- - -	4	110			111	189	194			
604	T4		A	0	- - -	6	466	467		468	601	574	603		
RD7701	ϕ_1		C	0	0 0 0	6	126	127		128	181	180	182		
702			C	6	0 0 0	6	155	154		153	156	157	165		
703		↓	C	0	0 0 10	4	131	130		129	179				
704	$\phi_1 VI$		C	0	0 0 0	3	139			140	175				
705			C	6	0 0 0	3	146			145	160				
706		↓	C	0	0 0 10	1					176				
707	$\phi_1 V \phi_{eff}$		C	0	0 0 -	3	142			141	174				
708		↓	C	6	0 0 -	3	143			144	161				
709	$\phi_1 C_1$		C	0	0 0 0	5	132	133		134	177	183			
710		↓	C	6	0 0 0	5	152	151		150	158	163			
711	$\phi_1 C_2$		C	0	0 0 0	5	137	136		135	176	184			
712		↓	C	6	0 0 0	5	149	147		148	159	164			

SCHEDULES

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

Booster @ Booster MRC Pitch Plane

□ PRETEST

CN. ICY. EA. EAF. ECB. ELM. EYN. MACH. ALPHAS. T
COEFFICIENTS: E = 32° 11° IDPVAR(1) IDPVAR(2) NDV

SCHEDULES

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONTINUED)

RD78AX BOOSTER @ TANK T1 MRC PITCH PLANE
RD78BX BOOSTER @ TANK T3 MRC PITCH PLANE

□ PRETEST

ESTOSTEST

TABLE 2. TEST S-222 DATA SET COLLATION SHEET (CONCLUDED)

RD79XX BOOSTER @ BOOSTER MRC YAW PLANE
RD79AX BOOSTER @ TANK T1 MRC YAW PLANE
RD79BX BOOSTER @ TANK T3 MRC YAW PLANE

PRETEST
 POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCILL.	CONTROL DEFLECTION	NO. of RUNS	MACH NUMBERS							
					α	β	δD	0.9	1.1	2.2	4.5	7.0
RD7901	B1	O A	-	4	117	116	170	169				
902	B2	O A	-	4	120	121	172	166				
903	B2S	O A	-	4	123	122	173	167				
904	B3	O A	-	4	119	118	171	163				
905	B4	O A	-	4	113	112	188	195				
9A1	B1	O A	-	4	117	116	170	169				
9A2	B2	O A	-	4	120	121	172	166				
9A3	B2S	O A	-	4	123	122	173	167				
9A4	B3	O A	-	4	119	118	171	168				
9A5	B4	O A	-	4	113	112	188	195				
9B1	B1	O A	-	4	117	116	170	169				
9B2	B2	O A	-	4	120	121	172	166				
9B3	B2S	O A	-	4	123	122	173	167				
9B4	B3	O A	-	4	119	118	171	168				
9B5	B4	O A	-	4	113	112	188	195				
1	7	13	19	25	31	37	43	49	55	61	67	75.76

CN CY FA FAF FCBL FCM FYN MACH BETA

COEFFICIENTS:

a or b

SCHEDULES

IDPVAR(1)|IDPVAR(2)|NDV

TABLE 3. MODEL COMPONENT DESCRIPTIONS

MODEL COMPONENT: BODY - B₁, B₂GENERAL DESCRIPTION: 040A Orbiter BodyB₁ INCLUDES CANOPYB₂ WITHOUT CANOPYDRAWING NUMBER: JLP SDD 9-24-71DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length, inch	<u>1315.</u>	<u>7.89</u>
Max. Width, inch	<u>204.</u>	<u>1.224</u>
Max. Depth , inch	<u>238.</u>	<u>1.427</u>
Fineness Ratio	<u>7.07</u>	<u>7.07</u>
Areas, inch		
Max. Cross-Sectional	<u>306.2 ft²</u>	<u>1.590 in.²</u>
Planform	<u>1676. ft²</u>	<u>8.68 in.²</u>
Wetted	<u>6530. ft²</u>	<u>33.8 in.²</u>
Base	<u>298. ft²</u>	<u>1.546 in.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: WING, WI

GENERAL DESCRIPTION: 040A Orbiter clipped delta wing

DRAWING NUMBER: JLP SDD 9-24-71

DIMENSIONS:TOTAL DATA, INCLUDES ELEVONS

Area	FULL-SCALE	MODEL SCALE
Planform	3155.3 ft ²	16.37 in. ²
Wetted	5360. ft ²	27.8 in. ²
Span (equivalent), inch	882.	5.292
Aspect Ratio	1.712	1.712
Rate of Taper	--	--
Taper Ratio	.1486	.1486
Dihedral Angle, degrees	7.0	7.0
Incidence Angle, degrees	1.5	1.5
Aerodynamic Twist, degrees	0	0
Toe-In Angle	--	--
Cant Angle	--	--
Sweep Back Angles, degrees		
Leading Edge	60.	60.
Trailing Edge	0	0
0.25 Element Line	52.4	52.4
Chords: inch		
Root (Wing Sta. 0.0)	89.7	5.38
Tip, (equivalent) (Y = 441)	133.3	.800
MAC	609.5	3.657
Fus. Sta. of .25 MAC	X 1057.5	6.36
W.P. of .25 MAC	Z 302.3	1.812
B.L. of .25 MAC	Y 165.7	.996
Airfoil Section		
Root	NACA 0008-64	NACA 0008-64
Tip	NACA 0008-64	NACA 0008-64

EXPOSED DATA, INCLUDES ELEVONS

Area	FULL-SCALE	MODEL SCALE
Span, (equivalent), inch	678.	4.07
Aspect Ratio	1.590	1.590
Taper Ratio	.1850	.1850
Chords, inch		
Root (Y102)	720.	4.32
Tip (Y441)	133.3	.800
MAC	494.	2.97
Fus. Sta. of .25 MAC	X 1145.5	6.87
W.P. of .25 MAC	Z 308.1	1.87
B.L. of .25 MAC	Y 232.8	1.397

TABLE 3. (CONTINUED)

MODEL COMPONENT: ELEVONS

GENERAL DESCRIPTION:

DRAWING NUMBER: JLP SDD 9-24-71

<u>DIMENSIONS: (FOR BOTH ELEVONS)</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>456. ft²</u>	<u>2.36 in.²</u>
Span (equivalent), INCH	<u>556.</u>	<u>3.33</u>
Inb'd equivalent chord, INCH	<u>118.</u>	<u>.708</u>
Outb'd equivalent chord, INCH	<u>118.</u>	<u>.708</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.1662</u>	<u>.1662</u>
At Outb'd equiv. chord	<u>.517</u>	<u>.517</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0</u>	<u>0</u>
Tailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u>0</u>	<u>0</u>
Area Moment (Normal to hinge line)	<u>2240. ft³</u>	<u>.835 in.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: VERTICAL FIN, VI

GENERAL DESCRIPTION: 040A Orbiter Vertical Fin. Both leading and trailing edges swept.

DRAWING NUMBER: JLP SDD 9-24-71

DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA, INCLUDES RUDDER, EXCLUDES TIP POD

Area	FULL-SCALE	MODEL SCALE
Planform	342. ft ²	1.772 in. ²
Wetted	684. ft ²	3.55 in. ²
Span (equivalent)	246.2	1.480
Aspect Ratio	1.228	1.228
Rate of Taper	--	--
Taper Ratio	.374	.374
Diehedral Angle, degrees	--	--
Incidence Angle, degrees	0	0
Aerodynamic Twist, degrees	0	0
Toe-In Angle	--	--
Cant Angle	--	--
Sweep Back Angles, degrees		
Leading Edge	45.	45.
Trailing Edge	15.	15.
0.25 Element Line	40.75	40.75
Chords: INCH		
Root (X) (Y) (Z) (0.000) (Z 500)	291.6	1.750
Tip, (equivalent) (Z 745.2)	109.0	.654
MAC	214.0	1.284
Fus. Sta. of .25 MAC	X 1422.7	--
W.P. of .25 MAC	Z 604.2	--
B.L. of .25 MAC	0	--
Airfoil Section		
Root	NACA 0012-64	NACA 0012-64
Tip	" "	" "

EXPOSED DATA

Area		
Span, (equivalent)		
Aspect Ratio		
Taper Ratio		
Chords		
Root	SAME	
Tip	AS	
MAC	ABOVE	
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		

TABLE 3. (CONTINUED)

MODEL COMPONENT: RUDDER - R1

GENERAL DESCRIPTION: _____

DRAWING NUMBER:

JLP SDD 9-24-71DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>135.6 ft²</u>	<u>.702 in.²</u>
Span (equivalent), INCH	<u>246.3</u>	<u>1.475</u>
Inb'd equivalent chord , INCH	<u>115.</u>	<u>.690</u>
Outb'd equivalent chord , INCH	<u>43.8</u>	<u>.263</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.40</u>	<u>.40</u>
At Outb'd equiv. chord	<u>.40</u>	<u>.40</u>
Sweep Back Angles, degrees		
Leading Edge	<u>29.1</u>	<u>29.1</u>
Tailing Edge	<u>15.0</u>	<u>15.0</u>
Hingeline	<u>29.1</u>	<u>29.1</u>
Area Moment (Normal to hinge line)	<u>448. ft³</u>	<u>.145 in.³</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: VERTICAL TAIL - V2

GENERAL DESCRIPTION: Centerline Stabilizer

DRAWING NUMBER: NR

DIMENSIONS: FULL-SCALE MODEL SCALE

TOTAL DATA

Area		
Planform		
Wetted		
Span (equivalent)		
Aspect Ratio		
Rate of Taper		
Taper Ratio		
Dihedral Angle, degrees		
Incidence Angle, degrees		
Aerodynamic Twist, degrees		
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	45°	45°
Trailing Edge		
0.25 Element Line		
Chords:		
Root (Wing Sta. 0.0)		
Tip, (equivalent)		
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	NACA 0012-64	
Tip	NACA 0012-64	

EXPOSED DATA

Area	69,837.3	in ²	2.514 in ²
Span, (equivalent)	369.17	in	2.215 in
Aspect Ratio	1.95		1.95
Taper Ratio	0.3137		.3137
Chords			
Root	288.0	in	1.728 in
Tip	90.35	in	0.542 in
MAC	206.38	in	1.238 in
Fus. Sta. of .25 MAC	1469.04		8.814
W.P. of .25 MAC	652.44		3.915
B.L. of .25 MAC	0		0

TABLE 3. (CONTINUED)

MODEL COMPONENT: RUDDER R₂

GENERAL DESCRIPTION:

DRAWING NUMBER:DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>181 ft²</u>	<u>.939 in²</u>
Span (equivalent)	<u>346 in</u>	<u>2.073 in</u>
Inb'd equivalent chord	<u>115 in</u>	<u>.691 in</u>
Outb'd equivalent chord	<u>36 in</u>	<u>.217 in</u>
Ratio Elevator chord/vertical tail chord		
At Inb'd equiv. chord	<u>.40</u>	<u>.40</u>
At Outb'd equiv. chord	<u>.40</u>	<u>.40</u>
Sweep Back Angles, degrees		
Leading Edge	<u>32°</u>	<u>32°</u>
Tailing Edge	<u>21°</u>	<u>21°</u>
Hingeline	<u>32°</u>	<u>32°</u>
Area Moment (Normal to hinge line)	<u>569 ft³</u>	<u>.212 in³</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - ACPS ENGINE POD . P1GENERAL DESCRIPTION: Blunt pod mounted on both wing tips.

DRAWING NUMBER: JLP SDD 9-24-71

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length , inch	<u>165.</u>	<u>.990</u>
Max. Width , inch	<u>55.</u>	<u>.330</u>
Max. Depth , inch	<u>28.</u>	<u>.168</u>
Fineness Ratio	<u>--</u>	<u>--</u>
Areas , in. ²		
Max. Cross-Sectional	<u>1540.</u>	<u>.0555</u>
Planform	<u>8280.</u>	<u>.298</u>
Wetted	<u>15,800.</u>	<u>.568</u>
Base	<u>1540.</u>	<u>.0555</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - OMS ENGINE POD , MIGENERAL DESCRIPTION: Pods mounted on both sides of aft end of fuselage.DRAWING NUMBER: JLP SDD 9-24-71

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length, inch	<u>251.</u>	<u>1.509</u>
Max. Width, inch	<u>42.8</u>	<u>.257</u>
Max. Depth, inch	<u>59.0</u>	<u>.354</u>
Fineness Ratio	<u>--</u>	<u>--</u>
Areas, in. ²		
Max. Cross-Sectional	<u>1828.</u>	<u>.0658</u>
Planform	<u>9880.</u>	<u>.356</u>
Wetted	<u>25,400.</u>	<u>.915</u>
Base	<u>1807.</u>	<u>.0651</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - HO Tank - T₂

GENERAL DESCRIPTION:

Blunt cone-cylinder centerline tank with aft boat tail.

 θ cone = 10°. Nose radius = 22 in. full-scale.

Diameter at base = 274 in. full-scale.

DRAWING NUMBER:

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>2022 in.</u>	<u>12.133 in.</u>
Max. Width	<u>301 in.</u>	<u>1.806 in.</u>
Max. Depth	<u>301 in.</u>	<u>1.806 in.</u>
Fineness Ratio	<u>6.73</u>	<u>6.73</u>
Area		
Max. Cross-Sectional	<u>494 ft²</u>	<u>2.562 in.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base	<u>422 ft²</u>	<u>2.125 in.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - HO Tank - T

GENERAL DESCRIPTION:Blunt cone-cylinder centerline tank with aft boat tail. θ cone = 15°. Nose radius = 22 in. full-scale.Diameter at base = 274 in. full-scale.DRAWING NUMBER:

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1867 in.</u>	<u>11.205 in.</u>
Max. Width	<u>301 in.</u>	<u>1.806 in.</u>
Max. Depth	<u>301 in.</u>	<u>1.806 in.</u>
Fineness Ratio	<u>6.2</u>	<u>6.2</u>
Area		
Max. Cross-Sectional	<u>494 ft²</u>	<u>2.562 in.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base	<u>422 ft²</u>	<u>2.125 in.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - HO Tank - T₃GENERAL DESCRIPTION:

Blunt cone-cylinder centerline tank with aft boat tail.

 θ cone = 10°. Nose radius = 22 in. full-scale.

Diameter at base = 304 in. full-scale.

DRAWING NUMBER:DIMENSIONS:FULL-SCALEMODEL SCALELength 1914 in. 11.442 in.Max. Width 323.5 in. 1.941 in.Max. Depth Dia. 323.5 in. 1.941 in.Fineness Ratio 5.92 5.92

Area

Max. Cross-Sectional 587 ft² 2.959 in.²Planform --- ---Wetted --- ---Base 518 ft² 2.613 in.²

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - HO-TANK-T₄GENERAL DESCRIPTION: Blunt Cone-Cylinder Centerline Tank with Aft Boat Tail
 θ Cone = 20°. Nose Radius = 22 In. Full-Scale. Maximum Diameter = 334 In.
Full Scale.

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1700 In.</u>	<u>10.200 In.</u>
Max. Width Dia.	<u>334 In.</u>	<u>2.004 In.</u>
Max. Depth	<u>334 In.</u>	<u>2.004 In.</u>
Fineness Ratio	<u>5.09</u>	<u>5.09</u>
Area		
Max. Cross-Sectional	<u>608 Ft.²</u>	<u>3.154 In.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base	<u>537 Ft.²</u>	<u>2.785 In.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: TANK VENTRAL FIN, F₁GENERAL DESCRIPTION: Single Fin Mounted on Tank, T₄.Fin has no movable surface.DRAWING NUMBER:

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area	<u>337 Ft.²</u>	<u>1.747 In.²</u>
Span (equivalent)	<u>237 In.</u>	<u>1.420 In.</u>
Inb'd equivalent chord	<u>323 In.</u>	<u>1.940 In.</u>
Outb'd equivalent chord	<u>87 In.</u>	<u>0.520 In.</u>
Ratio Elevator chord/horizontal tail chord		
At Inb'd equiv. chord	<u>---</u>	<u>---</u>
At Outb'd equiv. chord	<u>---</u>	<u>---</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45</u>	<u>45</u>
Tailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u>---</u>	<u>---</u>
Area Moment (Normal to hinge line)	<u>---</u>	<u>---</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - Booster, B₁

GENERAL DESCRIPTION: Parallel burn version of recoverable pressure-fed booster (RPFB). Blunt cone-cylinder with afterbody flare. $\theta_{cone} = 20^\circ$. $\theta_{flare} = 15^\circ$. Nose radius = 22 in. full-scale.

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1799 in.</u>	<u>10.792 in.</u>
Dia. Body	<u>206 in.</u>	<u>1.236 in.</u>
Max. Dia. Flare	<u>402 in.</u>	<u>2.412 in.</u>
Fineness Ratio	<u>8.73</u>	<u>8.73</u>
Area		
Cross-Sectional (Body)	<u>231 ft²</u>	<u>1.200 in.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base (flare)	<u>901 ft²</u>	<u>4.539 in.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: CODY - Booster, B.S.GENERAL DESCRIPTION: Pressure-Fed Booster

DRAWING NUMBER: _____

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1799 In.</u>	<u>10.792 In.</u>
Dia. Body	<u>206 In.</u>	<u>1.236 In.</u>
Max. Dia. Flare	<u>624 In.</u>	<u>3.744 In.</u>
Fineness Ratio	<u>8.73</u>	<u>8.73</u>
Area		
Max. Cross-Sectional (Body)	<u>231 Ft²</u>	<u>1.200 In.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base (Flare)	<u>2125 Ft²</u>	<u>11.0093 In.²</u>

TABLE 3.. (CONTINUED)

MODEL COMPONENT: CODY - Booster, B₁S₂GENERAL DESCRIPTION: Pressure-Fed Booster

DRAWING NUMBER:

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1799 In.</u>	<u>10.792 In.</u>
Dia. Body	<u>206 In.</u>	<u>1.236 In.</u>
Max. Dia. Flare	<u>936.3 In.</u>	<u>5.618 In.</u>
Fineness Ratio	<u>8.73</u>	<u>8.73</u>
Area		
Max. Cross-Sectional (Body)	<u>231 Ft²</u>	<u>1.200 In.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base (Flare)	<u>4785 Ft²</u>	<u>24.7887 In.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - Booster - B₂

GENERAL DESCRIPTION:

SRM Booster . Blunt cone-cylinder. θ cone = 20°. Nose radius = 15.67 in.
full-scale.

DRAWING NUMBER:

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length	1775 in.	10.633 in.
Max. Width Dia.	156 in.	0.936 in.
Max. Depth	156 in.	0.936 in.
Fineness Ratio	11.37	11.37
Area		
Max. Cross-Sectional	137.8 ft ²	0.694 in. ²
Planform	---	---
Wetted	---	---
Base	137.8 ft ²	0.694 in. ²

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - Booster - B₂S

GENERAL DESCRIPTION:

SRM Booster , B₂ booster with 15° afterbody flare. Nose radius = 16.67
in. full-scale.

DRAWING NUMBER:

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1775 in.</u>	<u>10.633 in.</u>
Dia. Body	<u>156 in.</u>	<u>0.936 in.</u>
Max. Dia. Flare	<u>275 in.</u>	<u>1.650 in.</u>
Fineness Ratio	<u>11.37</u>	<u>11.37</u>
Area		
Cross Sectional (Body)	<u>137.8 ft²</u>	<u>0.694 in.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base (Flare)	<u>428 ft²</u>	<u>2.158 in.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - Booster - B₃GENERAL DESCRIPTION: Parallel burn version of recoverable pressure-fed booster (RPFB). Blunt cone-cylinder with afterbody flare. β cone = 15°.Nose radius - 22 in. full-scale. Θ Flare = 15°

DRAWING NUMBER:

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1800 in.</u>	<u>10.800 in.</u>
Dia. Body	<u>206 in.</u>	<u>1.236 in.</u>
Max. Dia. Flare	<u>402 in.</u>	<u>2.412 in.</u>
Fineness Ratio	<u>8.74</u>	<u>8.74</u>
Area		
Cross-Sectional (Body)	<u>231 ft²</u>	<u>1.200 in.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base (Flare)	<u>902 ft²</u>	<u>4.545 in.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - Booster - B₄

GENERAL DESCRIPTION: Parallel burn version of recoverable pressure-fed booster (RPFB). Blunt cone-cylinder with afterbody flare. θcone = 20°.
θ flare = 5°. Nose radius = 22 in. full scale.

DRAWING NUMBER:

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>1503 in.</u>	<u>9.025 in.</u>
Dia. Body	<u>247 in.</u>	<u>1.483 in.</u>
Max. Dia. Flare	<u>318 in.</u>	<u>1.909 in.</u>
Fineness Ratio	<u>6.09</u>	<u>6.09</u>
Area		
Cross-Sectional (Body)	<u>343 ft²</u>	<u>1.727 in.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base (Flare)	<u>568 ft²</u>	<u>2.865 in.²</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: Fin, F₄GENERAL DESCRIPTION: Single fin mounted on each B₄ booster flare.Roll-out angle is 45° down. Fin has no movable surface.

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area (exposed planform, 1 fin)	<u>503 ft²</u>	<u>2.610 in²</u>
Span (equivalent, to booster Q)	<u>424 in</u>	<u>2.544 in</u>
Inb'd equivalent chord	<u>410 in</u>	<u>2.460 in</u>
Outb'd equivalent chord	<u>110 in</u>	<u>0.660 in</u>
Ratio Elevator chord/vertical tail chord		
At Inb'd equiv. chord	<u>---</u>	<u>---</u>
At Outb'd equiv. chord	<u>---</u>	<u>---</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45</u>	<u>45</u>
Tailing Edge	<u>0</u>	<u>0</u>
Hingeline	<u>---</u>	<u>---</u>
Area Moment (Normal to hinge line)	<u>---</u>	<u>---</u>

TABLE 3. (CONTINUED)

MODEL COMPONENT: CODY - Booster, B₅GENERAL DESCRIPTION: Pressure-Fed Booster

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	1799 In.	10.792 In.
Dia. Body	206 In.	1.236 In.
Max. Dia. Flare	319.3 In.	1.916 In.
Fineness Ratio	8.73	8.73
Area		
Max. Cross-Sectional (Body)	231 Ft ²	1.200 In. ²
Planform	---	---
Wetted	---	---
Base (Flare)	557 Ft ²	2.88 In. ²

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - Booster, B6

GENERAL DESCRIPTION: SRM Booster

DRAWING NUMBER

DIMENSION:

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length	1613 in.	9.673 in.
Dia. (Body)	156 in.	0.936 in.
Max Depth	156 in.	0.936 in.
Fineness Ratio	10.35	10.35
Area		
Max Cross-Sectional	137.8 ft ²	0.694 in ²
Planform	---	---
Wetted	---	---
Base (Nozzle)	95.4 ft ²	0.481 in ²

TABLE 3. (CONTINUED)

MODEL COMPONENT: BODY - Booster, B₇GENERAL DESCRIPTION: 120" Dia. SRM

DRAWING NUMBER:

DIMENSIONS:FULL-SCALEMODEL SCALE

Length	<u>1403 In.</u>	<u>8.418 In.</u>
Dia. Body	<u>120 In.</u>	<u>0.72 In.</u>
Max. Dia. Flare	<u>---</u>	<u>---</u>
Fineness Ratio	<u>11.7</u>	<u>11.7</u>
Area		
Max. Cross-Sectional (Body)	<u>79.3 Ft²</u>	<u>0.408 In.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base	<u>79.3 Ft²</u>	<u>0.408 In.²</u>

TABLE 3. (CONCLUDED)

MODEL COMPONENT: CODY - TVC Tank A1 for B₇GENERAL DESCRIPTION: Thrust Vectoring Fuel Tank

DRAWING NUMBER: _____

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>381.8 In.</u>	<u>2.291 In.</u>
Dia. Body	<u>42 In.</u>	<u>0.252 In.</u>
Max. Dia. Flare	<u>---</u>	<u>---</u>
Fineness Ratio	<u>9.08</u>	<u>9.08</u>
Area		
Max. Cross-Sectional (Body)	<u>9.65 Ft²</u>	<u>0.05 In.²</u>
Planform	<u>---</u>	<u>---</u>
Wetted	<u>---</u>	<u>---</u>
Base	<u>---</u>	<u>---</u>

TABLE 4.

Plume Definition

 $M = 1.5$

$\frac{B_1}{r_e} = 187$ in.	$\frac{B_6}{r_e} = 66$ in.	$\frac{O_1}{r_e}$ (3 Eng. -HiPc)
		$r_e = 92.5$ in.

x/r_e	r/r_e	x/r_e	r/r_e	x/r_e	r/r_e
0	1.00	0	1.00	0	1.0
0.5	1.17	0.5	1.23	0.5	1.0
1.0	1.22	1.0	1.48	1.0	1.0
1.5	1.23	1.5	1.70	1.5	1.0
2.0	1.20	2.0	1.88	2.0	1.0
		2.5	2.00		
		3.0	2.11		

 $M = 2.2$

$\frac{B_6}{r_e} = 66$ in.	$\frac{O_1}{r_e}$ (3 Eng.-HiPc)
	$r_e = 118$ in.

x/r_e	r/r_e	x/r_e	r/r_e
0	1.00	0	1.00
0.5	1.33	0.5	1.10
1.0	1.62	1.0	1.20
1.5	1.88	1.5	1.26
2.0	2.13	2.0	1.33
2.5	2.33	2.5	1.41
3.0	2.51	3.0	1.47
4.0	2.84	4.0	1.57
5.0	3.12	5.0	1.62
6.0	3.35	6.0	1.65
7.0	3.55	7.0	1.66
8.0	3.72	8.0	1.64
9.0	3.87		
10.0	3.97		
11.0	4.03		
12.0	4.11		
13.0	4.15		
14.0	4.17		

TABLE 4, cont.

 $M = 2.5$

$$\frac{B_1}{r_e} = 187 \text{ in.}$$

$$\frac{O_1 (4 \text{ Eng. -J2S})}{r_e} = 89 \text{ in.}$$

x/r_e	r/r_e
0	1.00
0.5	1.34
1.0	1.53
1.5	1.77
2.0	1.91
2.5	2.03
3.0	2.13
4.0	2.30
5.0	2.30
6.0	2.23

x/r_e	r/r_e
0	1.00
0.5	1.21
1.0	1.34
1.5	1.46
2.0	1.56
2.5	1.61
3.0	1.67
4.0	1.71
5.0	1.75

 $M = 1.5$

$$r_e = 60 \text{ in.}$$

x/r_e	r/r_e
0	1.00
0.026	1.01
0.100	1.05
0.240	1.10
0.320	1.14
0.430	1.18
0.680	1.27
1.000	1.34
1.400	1.50
1.870	1.61
2.430	1.72
3.410	1.87
4.150	1.94
4.970	1.98
5.830	2.00

B7 $M = 2.2$

$$r_e = 60 \text{ in.}$$

x/r_e	r/r_e
0	1.00
0.04	1.02
0.17	1.09
0.23	1.12
0.30	1.16
0.38	1.20
0.48	1.24
0.58	1.29
0.70	1.34
0.83	1.40
1.13	1.52
1.30	1.60
1.69	1.73
2.13	1.87
2.64	2.02
3.22	2.17
3.87	2.31
4.58	2.45
5.36	2.57

TABLE 5.
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TITLE	PLOTTED COEFFICIENTS	CONDITIONS VARYING	VOLUME/PAGE NO.
SCHEDULE			
Longitudinal Effects of a Bl Booster on (01)TBL at Beta = 0	A	Ascent Configuration Booster Isolation	I/1-50
Longitudinal Effects of a Bl Booster on (01)TBL at Beta = 6	A	Ascent Configuration Booster Isolation	I/51-80
Lateral-Directional Effects of a Bl Booster on (01)TBL at Beta = 0	B	Ascent Configuration Booster Isolation	I/81-95
Lateral-Directional Effects of a Bl Booster on (01)TBL at Beta = 6	B	Ascent Configuration Booster Isolation	I/96-104
Lateral-Directional Effects of a Bl Booster on (01)TBL with Beta at Alpha = 0	D	Ascent Configuration Booster Isolation	I/105-110
Longitudinal Effects of a Bl Booster on (01)TBL with Beta at Alpha = 0	E	Ascent Configuration Booster Isolation	I/111-120
Effect of Beta on Longitudinal Characteristics of OLTBL	A	Beta	I/121-180
Effect of Beta on Lateral-Directional Characteristics of OLTBL	B	Beta	I/181-198
Lateral-Directional Characteristics of Configuration OLTBL with Beta at Alpha = 0	C		I/199-218
Aileron Effectiveness of Configuration (01)TBL at Beta = 0	B	Aileron Deflection	I/219-236
Aileron Effectiveness of Configuration OLTBL at Beta = 0	B	Aileron Deflection	I/237-239
Variation of Aileron Control at Alpha = 0 with Beta of OLTBL	C	Aileron Deflection	I/240-243
Longitudinal Effects of a B2 Booster on (01)TBL at Beta = 6	A	Ascent Configuration Booster Isolation	I/244-303

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS		CONDITIONS VARYING	VOLUME/PAGE NO.
	SCHEDULE			
Lateral-Directional Effects of a B2 Booster on (01)T1B2 at Beta = 6	B	Ascent Configuration Booster Isolation	I/304-309	
Effect of Beta on Longitudinal Characteristics of 0LT1B2	A	Beta	I/310-369	
Effect of Beta on Lateral-Directional Characteristics of 0LT1B2	B	Beta	I/370-387	
Effect of Beta on Longitudinal Characteristics of 0LT1B2S	A	Beta	I/388-447	
Effect of Beta on Lateral-Directional Characteristics of 0LT1B2S	B	Beta	I/448-465	
Longitudinal Effects of a B3 Booster on (01)T1B3 at Beta = 0	A	Ascent Configuration Booster Isolation	I/466-525	69
Longitudinal Effects of a B3 Booster on (01)T1B3 at Beta = 6	A	Ascent Configuration Booster Isolation	I/526-545	
Lateral-Directional Effects of a B3 Booster on (01)T1B3 at Beta = 0	B	Ascent Configuration Booster Isolation	I/546-557	
Lateral-Directional Effects of a B3 Booster on (01)T1B3 at Beta = 6	B	Ascent Configuration Booster Isolation	I/558-563	
Lateral-Directional Effects of a B3 Booster on (01)T1B3 with Beta at Alpha = 0	D	Ascent Configuration Booster Isolation	I/564-569	
Longitudinal Effects of a B3 Booster on (01)T1B3 with Beta at Alpha = 0	E	Ascent Configuration Booster Isolation	I/570-579	

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	VOLUME/ PAGE NO.
Longitudinal Effects of a B4 Booster on (01)T1B4 at Beta = 0	A	Ascent Configuration Booster Isolation	I/580-639
Lateral-Directional Effects of a B4 Booster on (01)T1B4 at Beta = 6	A	Ascent Configuration Booster Isolation	I/640-659
Lateral-Directional Effects of a B4 Booster on (01)T1B4 at Beta = 0	B	Ascent Configuration Booster Isolation	I/660-674
Lateral-Directional Effects of a B4 Booster on (01)T1B4 at Beta = 6	D	Ascent Configuration Booster Isolation	I/675-680
Longitudinal Effects of a B4 Booster on (01)T1B4 with Beta at Alpha = 0	E	Ascent Configuration Booster Isolation	I/681-689
Longitudinal Effects of a B5 Booster on (01)T1B5 at Beta = 6	A	Ascent Configuration Booster Isolation	I/690-704
Lateral-Directional Effects of a B5 Booster on (01)T1B5 at Beta = 6	B	Ascent Configuration Booster Isolation	I/725-730
Longitudinal Effects of a B5 Booster on (01)T1B5 at Beta = 0	A	Ascent Configuration Booster Isolation	I/731-790
Longitudinal Effects of a B5 Booster on (01V1)T1B5 at Beta = 6	A	Ascent Configuration Booster Isolation	I/791-800
Lateral-Directional Effects of a B5 Booster on (01V1)T1B5 at Beta = 0	B	Ascent Configuration Booster Isolation	I/801-812
Lateral-Directional Effects of a B5 Booster on (01V1)T1B5 at Beta = 6	B	Ascent Configuration Booster Isolation	I/813-815
Lateral-Directional Effects of a B5 Booster on (01V1)T1B5 with Beta at Alpha = 0	D	Ascent Configuration Booster Isolation	I/816-824

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	VOLUME/PAGE NO.
Longitudinal Effects of a B5 Booster on (01V1)T1B5 with Beta at Alpha = 0	E	Ascent Configuration Booster Isolation	I/825-839
Lateral-Directional Characteristics of (01)T1B6 at Beta = 0	A	Mach No.	I/840-849
Lateral-Directional Characteristics of (01)T1B6 at Alpha = 0	C	Mach No.	I/850-853
Longitudinal Characteristics of (01)T1B6 with Ailerons = 20 at Beta = 0	A	Mach No.	I/854-863
Lateral-Directional Characteristics of (01)T1B6 with Ailerons = 20 at Beta = 0	B	Mach No.	I/864-866
Longitudinal Characteristics of (01)T1B6 with Ailerons = 20 at Alpha = 0	D	Mach No.	I/867-869
Tank Nose Cone Effect on Longitudinal Characteristics of Configuration (01)T1B1 at Beta = 0	E	Mach No.	I/870-874
Longitudinal Effects of a Bl Booster on (01)T2B1 at Beta = 6	A	Configuration	I/875-904
Lateral-Directional Effects of a Bl Booster on (01)T2B1 at Beta = 6	B	Ascent Configuration Booster Isolation	I/905-914
Tank Nose Cone Effect on Longitudinal Characteristics of Configuration (01V1)T1B5 at Beta = 0	A	Ascent Configuration Booster Isolation	I/915-917
Tank Nose Cone Effect on Lateral-Directional Characteristics of Configuration (01V1)T1B5 at Alpha = 0	C	Configuration	I/948-959

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS	CONDITIONS VARYING	VOLUME/ PAGE NO.
	SCHEDULE		
Effect of Tank T2 Longitudinal Position on (01)T2BL at Beta = 0	A	Configuration	I/960-989
Lateral-Directional Effects of a BL Booster on (01)T2BL at Beta = 6			
Effect of Tank T2 Longitudinal Position on (01)T2BL at Beta = 6	A	Ascent Configuration Booster Isolation	I/990=999
Effect of Tank T2 Longitudinal Position on (01)T2BL at Beta = 0	B	Ascent Configuration Booster Isolation	I/1000-1002
Effect of Tank T2 Longitudinal Position on (01V1)T2B5 at Beta = 0	A	Configuration	I/1003-1032
Effect of Tank T2 Longitudinal Position on (01V1)T2B5 with Beta = 0	A	Configuration	I/1033-1062
Effect of Tank T2 Longitudinal Position on (01V1)T2B5 with Beta at Alpha = 0	C	Configuration	I/1063-1074
Effect of Tank T2 Longitudinal Position on (01V1)T2B5 with Beta at Alpha = 0	C	Configuration	I/1075-1082
Longitudinal Effects of a BL Booster on (01)T3BL at Beta = 0	A	Ascent Configuration Booster Isolation	II/I-40
Longitudinal Effects of a BL Booster on (01)T3BL at Beta = 6			
Lateral-Directional Effects of a BL Booster on (01)T3BL at Beta = 0	A	Ascent Configuration Booster Isolation	II/41-60
Lateral-Directional Effects of a BL Booster on (01)T3BL at Beta = 6	B	Ascent Configuration Booster Isolation	II/61-72
Lateral-Directional Effects of a BL Booster on (01)T3BL at Beta = 0	B	Ascent Configuration Booster Isolation	II/73-78
Lateral-Directional Effects of a BL Booster on (01)T3BL with Beta at Alpha = 0	D	Ascent Configuration Booster Isolation	II/79-84

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	VOLUME PAGE NO.
Longitudinal Effects of a B1 Booster on (01) Γ 3B1 with Beta at Alpha = 0	E	Ascent Configuration Booster Isolation	II/85-99
Longitudinal Effects of a B2 Booster on (01) Γ 3B2 at Beta = 0	A	Ascent Configuration Booster Isolation	II/100-139
Lateral-Directional Effects of a B2 Booster on (01) Γ 3B2 at Beta = 0	B	Ascent Configuration Booster Isolation	II/140-151
Lateral-Directional Effects of a B2 Booster on (01) Γ 3B2 with Beta at Alpha = 0	C	Ascent Configuration Booster Isolation	II/152-157
Longitudinal Effects of a B2 Booster on (01) Γ 3B2 with Beta at Alpha = 0	E	Ascent Configuration Booster Isolation	II/158-167
Longitudinal Characteristics of Configuration 01 Γ 3B2 at Beta = 0	A		II/168-177
Longitudinal Characteristics of Configuration 01 Γ 3B2 at Beta = 6	A	Mach No.	II/178-187
Lateral-Directional Characteristics of Configuration 01 Γ 3B2 at Beta = 6	B	Mach No.	II/188-190
Longitudinal Effects of a B3 Booster on (01) Γ 3B3 at Beta = 0	A	Ascent Configuration Booster Isolation	II/191-230
Longitudinal Effects of a B3 Booster on (01) Γ 3B3 at Beta = 6	A	Ascent Configuration Booster Isolation	II/231-240
Lateral-Directional Effects of a B3 Booster on (01) Γ 3B3 at Beta = 0	B	Ascent Configuration Booster Isolation	II/241-252
Lateral-Directional Effects of a B3 Booster on (01) Γ 3B3 at Beta = 6	B	Ascent Configuration Booster Isolation	II/253-255

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS	CONDITIONS VARYING	VOLUME/PAGE NO.
Lateral-Directional Effects of a B3 Booster on (01)T3B3 with Beta at Alpha = 0	D	Ascent Configuration Booster Isolation	II/256-261
Longitudinal Effects of a B3 Booster on (01)T3B3 with Beta at Alpha = 0	E	Ascent Configuration Booster Isolation	II/262-271
B3 Boosters Contribution to Longitudinal Characteristics of (01)T3B3 at Beta = 0	A	Configuration	II/272-321
B3 Boosters Contribution to Lateral-Directional Characteristics of (01)T3B3 at Alpha = 0	C	Configuration	II/322-333
Effect of Beta on Longitudinal Characteristics of 01T3B4	A	Beta	II/334-394
Effect of Beta on Lateral-Directional Characteristics of 01T3B4	B	Beta	II/394-411
Lateral-Directional Characteristics of 01T3B4 with Beta at Alpha = 0 and 6	C	Alpha	II/412-435
Lateral-Directional Characteristics of Configuration (01)T3B4 with Beta at Alpha = 0	C		II/436-439
Aileron Effectiveness of Configuration 01T3B4 at Beta = 0	B	Aileron Deflection	II/440-457
Aileron Effectiveness of Configuration (01)T3B4 at Beta = 0	B	Aileron Deflection	II/458-460
Effects of Alpha on Rudder Effectiveness of Configuration 01T3B4 at Beta = 0	B	Rudder Deflection	II/461-478
Effects of Alpha on Rudder Effectiveness of Configuration (01)T3B4 at Beta = 0	B	Rudder Deflection	II/479-481
Effect of Booster Fin F4 on Longitudinal Characteristics of 01T3B4 at Beta = 0	A	Configuration	II/482-541

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS		CONDITIONS VARYING	VOLUME/ PAGE NO.
	SCHEDULE	A		
Effect of Booster Fin F ₄ on Longitudinal Characteristics of (01)T3B ₄ at Beta = 0	A	Configuration	II/542-551	
Effect of Booster Fin F ₄ on Longitudinal Characteristics of (01)T3B ₄ at Beta = 6	A	Configuration	II/552-611	
Effect of Booster Fin F ₄ on Lateral-Directional Characteristics of (01)T3B ₄ at Beta = 6	B	Configuration	II/612-629	
Longitudinal Effects of a B ₅ Booster on (01V1)T3B ₅ at Beta = 0	A	Ascent Configuration Booster Isolation	II/630-669	
Longitudinal Effects of a B ₅ Booster on (01V1)T3B ₅ at Beta = 6	A	Ascent Configuration Booster Isolation	II/670-679	
Lateral-Directional Effects of a B ₅ Booster on (01V1)T3B ₅ at Beta = 0	B	Ascent Configuration Booster Isolation	II/680-691	
Lateral-Directional Effects of a B ₅ Booster on (01V1)T3B ₅ at Beta = 6	B	Ascent Configuration Booster Isolation	II/692-694	
Lateral-Directional Effects of a B ₅ Booster on (01V1)T3B ₅ with Beta at Alpha = 0	D	Ascent Configuration Booster Isolation	II/695-700	
Longitudinal Effects of a B ₅ Booster on (01V1)T3B ₅ with Beta at Alpha = 0	E	Ascent Configuration Booster Isolation	II/701-710	
Effects of Beta on Longitudinal Characteristics of (01)T4B7A ₁₋₄	A	Beta	III/1-60	
Effects of Beta on Lateral-Directional Characteristics of (01)T4B7A ₁₋₄	B	Beta	III/61-78	

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	VOLUME/ PAGE NO.
Longitudinal Characteristics of Configuration 01T4B7AL-4 at Beta = 0	A	Mach No.	III/79-88
Lateral-Directional Characteristics of Configuration 01T4B7AL-4 at Alpha = 0	C	Mach No.	III/89-92
Aileron Effectiveness of Configuration (01)T4B7AL-4 at Beta = 0	B	Aileron Deflection	III/93-110
Aileron Effectiveness of Configuration (01)T4B7AL-4 at Beta = 6	B	Aileron Deflection	III/111-128
Effects of Beta on Aileron Control of Configuration (01)T4B7AL-4 at Alpha = 0	C	Aileron Deflection	III/129-152
Effects of Aileron on Longitudinal Characteristics of Configuration (01)T4B7AL-4 at Beta = 6	A	Aileron Deflection	III/153-212
Effects of Alpha on Rudder Control of Configuration (01)T4B7AL-4 at Beta = 0	B	Rudder Deflection	III/213-230
Rudder Effectiveness of Configuration (01)T4B7AL-4 at Alpha = 0	C	Rudder Deflection	III/231-254
Effects of Beta on Lateral-Directional Characteristics of (01)T4B7AL-4 with Rudder = 10	B	Beta	III/255-272
Effects of Al on Longitudinal Characteristics of (01)T4B7AL-4 at Beta = 0	A	Configuration	III/273-302
Effects of Al on Lateral-Directional Characteristics of (01)T4B7AL-4 at Alpha = 0	C	Configuration	III/303-314
Effects of Fln Fl on Longitudinal Characteristics of Configuration 01T4B7AL-4 at Beta = 0	A	Configuration	III/315-334

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	VOLUME/PAGE NO.
Effects of Fin Fl on Lateral-Directional Characteristics on Configuration OLT4B7AL-4 at Alpha = 0	C	Configuration	III/335-342
Effects of Fin Fl on Longitudinal Characteristics of Configuration T4B7AL-4 at Beta = 0	A	Configuration	III/343-402
Effects of Fin Fl on Lateral-Directional Characteristics on Configuration T4B7AL-4 at Alpha = 0	C	Configuration	III/403-426
Effects of B7AL-4 on Longitudinal Characteristics of Configuration (01)T4B7AL-4 at Beta = 0	A	Configuration	III/427-486
Effects of B7AL-4 on Lateral-Directional Characteristics of Configuration (01)T4B7AL-1 at Alpha = 0	C	Configuration	III/487-510
Comparison of the Longitudinal Characteristics of (01)T4B7AL-4 and (01)T4B7AL-5 at Beta = 0	A	Configuration	III/511-570
Comparison of the Lateral-Directional Characteristics of (01)T4B7AL-4 and (01)T4B7AL-5 at Beta = 6	B	Configuration	III/571-588
Comparison of the Lateral-Directional Characteristics of (01)T4B7AL-4 and (01)T4B7AL-5 at Alpha = 0	C	Configuration	III/589-612
Effects of Beta on Longitudinal Characteristics of (01)T4B7AL-5	A	Beta	III/613-672
Effects of Beta on Lateral-Directional Characteristics of (01)T4B7AL-5	B	Beta	III/673-690
Longitudinal Effect of Exhaust Plumes on Configuration OLTBL at Beta = 0	A	Plume	IV/ 1-20
Longitudinal Effect of Exhaust Plumes on Configuration OLTBL at Beta = 6	A	Plume	IV/21-30

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS		CONDITIONS VARYING	VOLUME/ PAGE NO.
	SCHEDULE			
Lateral-Directional Effect of Exhaust Plumes on Configuration OLT1BL at Beta = 6	B		Plume	IV/31-33
Longitudinal Effect of M = 1.5 Exhaust Plumes on Configuration OLT1BL at Beta = 0	A		Plume	IV/34-53
Lateral-Directional Effect of M = 1.5 Exhaust Plumes on Configuration OLT1BL at Alpha = 0	C		Plume	IV/54-61
Effect of Exhaust Plumes on Aileron Effectiveness of Configuration OLT1BL on Beta = 0	B		Plume	IV/62-64
Effects of M=1.5 Exhaust Plumes on Aileron Effectiveness of Configuration OLT1BL at Beta = 0	B		Plume and Aileron Deflection	IV/65-70
Variation of Aileron Control at Alpha = 0 with Beta and M=1.5 Exhaust Plumes OLT1BL	C		Plume and Aileron Deflection	IV/71-78
Variation of Rudder Control at Beta = 0 with Alpha and M=1.5 Exhaust Plumes OLT1BL	B		Plume and Rudder Deflection	IV/79-84
Effects of M=1.5 Exhaust Plumes on Rudder Effectiveness with Beta at Alpha = 0 of OLT1BL	C		Plume and Rudder Deflection	IV/85-92
Lateral-Directional Characteristics of Configuration OLT1BL + Plume(2.5) with Deflected Rudder at Beta = 0	B			IV/93-95
Longitudinal Characteristics of Configuration OLT1BL+Plume(2.5) with Deflected Rudder at Beta = 0	A			IV/96-105
Longitudinal Effect of Mach No.=1.5 Exhaust Plumes on Configuration OLT3B6 at Beta = 0	A		Plume	IV/106-115

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS	CONDITIONS	VOLUME/ PAGE NO.
	SCHEDULE	VARYING	
Longitudinal Effect of Mach No=2.2 Exhaust Plumes on Configuration OLT3B6 at Beta = 0	A	Plume	IV/116-125
Lateral-Directional Effect of Mach No.=1.5 Exhaust Plumes on Configuration OLT3B6 at Alpha = 0	C	Plume	IV/126-129
Lateral-Directional Effect of Mach No=2.2 Exhaust Plumes on Configuration OLT3B6 at Alpha = 0	C	Plume	IV/130-133
Effects of M=1.5 Exhaust Plumes on Aileron Effectiveness of Configuration OLT3B6 at Beta = 0	B	Plume and Aileron Deflection	IV/134-136
Effects of M=2.2 Exhaust Plumes on Aileron Effectiveness of Configuration OLT3B6 at Beta = 0	B	Plume and Aileron Deflection	IV/137-139
Variation of Aileron Control at Alpha = 0 with Beta and M=1.5 Exhaust Plumes OLT3B6	C	Plume and Aileron Deflection	IV/140-143
Variation of Aileron Control at Alpha = 0 with Beta and M=2.2 Exhaust Plumes OLT3B6	C	Plume and Aileron Deflection	IV/144-147
Variation of Rudder Control at Beta = 0 with Alpha and M=1.5 Exhaust Plumes OLT3B6	B	Plume and Rudder Deflection	IV/148-150
Effects of M=1.5 Exhaust Plumes on Rudder Effectiveness with Beta at Alpha = 0 of OLT3B6	C	Plume and Rudder Deflection	IV/151-154
Variation of Rudder Control at Beta = 0 with Alpha and M=2.2 Exhaust Plumes OLT3B6	B	Plume and Rudder Deflection	IV/155-157
Effects of M=2.2 Exhaust Plumes on Rudder Effectiveness with Beta at Alpha = 0 of OLT3B6	C	Plume and Rudder Deflection	IV/158-161
Longitudinal Effect of M=1.5 Exhaust Plumes on Configuration OLT4B7A1-4 at Beta = 0	A	Plume	IV/162-171

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS SCHEDULE	CONDITIONS VARYING	VOLUME/ PAGE NO.
Longitudinal Effect of M=2.2 Exhaust Plumes on Configuration OLT4B7AL-4 at Beta = 0	A	Plume	IV/172-181
Lateral-Directional Effects of M=1.5 Exhaust Plumes on Configuration OLT4B7AL-4 at Alpha = 0	C	Plume	IV/182-185
Lateral-Directional Effects of M=2.2 Exhaust Plumes on Configuration OLT4B7AL-4 at Alpha = 0	C	Plume	IV/186-189
Aileron Effectiveness of Configuration OLT4B7AL-4+Plume(1.5) at Beta = 0	B	Aileron Deflection	IV/190-192
Aileron Effectiveness of Configuration OLT4B7AL-4+Plume(2.2) at Beta = 0	B	Aileron Deflection	IV/193-195
Effects of Beta on Aileron Control of Configuration OLT4B7AL-4+Plume(1.5) at Alpha = 0	C	Aileron Deflection	IV/196-199
Effects of Beta on Aileron Control of Configuration OLT4B7AL-4+Plume(2.2) at Alpha = 0	C	Aileron Deflection	IV/200-203
Rudder Effectiveness of Configuration OLT4B7AL-4+Plume(1.5) at Alpha = 0	C	Rudder Deflection	IV/204-207
Rudder Effectiveness of Configuration OLT4B7AL-4+Plume(2.2) at Alpha = 0	C	Rudder Deflection	IV/208-211
Effects of Alpha on Rudder Control of Configuration OLT4B7AL-4+Plume(1.5) at Beta = 0	B	Rudder Deflection	IV/212-214
Effects of Alpha on Rudder Control of Configuration OLT4B7AL-4+Plume(2.2) at Beta = 0	B	Rudder Deflection	IV/215-217

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS	CONDITIONS VARYING	VOLUME/PAGE NO.	SCHEDULE
				A C
Longitudinal Effects of M=1.5 Exhaust Plumes on Configuration OLVIT4B7AL-4 at Beta = 0	A	Plume	IV/218-227	
Lateral-Directional Effects of M=1.5 Exhaust Plumes on Configuration OLVIT4B7AL-4 at Alpha = 0	C	Plume	IV/228-231	
Longitudinal Effects of M=2.2 Exhaust Plumes on Configuration OLVIT4B7AL-4 at Beta = 0	A	Plume	IV/232-241	
Lateral-Directional Effects of M=2.2 Exhaust Plumes on Configuration OLVIT4B7AL-4 at Alpha = 0	C	Plume	IV/242-245	
Effects of M=1.5 Exhaust Plumes on Rudder Effectiveness with and without Rudder Flare	C	Plume, Rudder Deflection, Rudder Flare	IV/246-253	
Effects of M=2.2 Exhaust Plumes on Rudder Effectiveness with and without Rudder Flare	C	Plume, Rudder Deflection, Rudder Flare	IV/254-261	
Variation of Rudder Control with and Without Rudder Flare and M=1.5 Exhaust Plume	A	Plume, Rudder Deflection, Rudder Flare	IV/262-281	
Variation of Rudder Control with and without Rudder Flare and M=2.2 Exhaust Plume	A	Plume, Rudder Deflection, Rudder Flare	IV/282-301	
Effects of Beta = 6 on Longitudinal Characteristics of Configuration (O1)T1	A	Beta	IV/302-321	
Effects of Beta = 6 on Lateral-Directional Characteristics of Configuration (O1)T1	B	Beta	IV/322-327	
Lateral-Directional Characteristics of V1 and V2 on (O1)T1 at Alpha = 0	D	Configuration	IV/328-336	
Longitudinal Characteristics Comparison of V1 and V2 on (O1)T1 at Alpha = 0	E	Configuration	IV/337-351	

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS	CONDITIONS VARYING	VOLUME/ PAGE NO.
SCHEDULE			
Aileron Effectiveness of Configuration (01V1)T1 at Beta = 0	B	Aileron Deflection	IV/352-360
Effects of Beta on Aileron Effectiveness of Configuration (01V1)T1 at Alpha = 0	D	Aileron Deflection	IV/361-369
Longitudinal Characteristics of (01V1)T1 with Ailerons=20 at Beta = 0	A	Mach No.	IV/370-379
Lateral-Directional Characteristics of (01V1)T1 with Ailerons = 20 at Beta = 0	B	Mach No.	IV/380-382
Lateral-Directional Characteristics of (01V1)T1 with Ailerons = 20 at Alpha = 0	D	Mach No.	IV/383-385
Longitudinal Characteristics of (01V1)T1 with Ailerons=20 at Alpha = 0	E	Mach No.	IV/386-390
Rudder Effectiveness of Configuration (01V1)T1 at Alpha = 0	C	Rudder Deflection	IV/391-402
Effects of Alpha on Rudder Effectiveness of Configuration (01V1)T1 at Beta = 0	B	Rudder Deflection	IV/403-411
Effect of Tank T2 Longitudinal Position on (01)T2 at Beta=0	A	Configuration	IV/412-431
Effect of Tank T2 Longitudinal Position on (01)T2 with Beta at Alpha = 0	C	Configuration	IV/432-439
Longitudinal Characteristics of Various Boosters on Configuration (01)T2 at Beta = 6	A	Configuration	IV/440-449
Lateral-Directional Characteristics of Various Boosters on Configuration (01)T2 at Beta = 6	B	Configuration	IV/450-452

TABLE 6. (CONTINUED)

TITLE	COEFFICIENTS SCHEDULE	CONDITIONS VARYING	PLOTTED VOLUME/ PAGE NO.
Effects of Beta = 6 on Longitudinal Characteristics of Configuration (01)T3	A	Beta	IV/453-472
Effects of Beta = 6 on Lateral-Directional Characteristics of Configuration (01)T3	B	Beta	IV/473-478
Effects of Beta on Longitudinal Characteristics of (01)T4	A	Beta	IV/479-488
Effects of Beta on Lateral-Directional Characteristics of (01)T4	B	Beta	IV/489-491
Longitudinal Characteristics of Configuration T1B5 at Beta = 0	A	Mach No.	IV/492-501
Lateral-Directional Characteristics of Configuration T1B5 at Alpha = 0	C	Mach No.	IV/502-505
Longitudinal Characteristics of Configuration T1B6 at Beta = 0	A	Mach No.	IV/506-515
Lateral-Directional Characteristics of Configuration T1B6 at Alpha = 0	C	Mach No.	IV/516-519
Longitudinal Characteristics of Configuration T3B2 at Beta = 0	A	Mach No.	IV/520-529
Lateral-Directional Characteristics of Configuration T3B2 at Alpha = 0	C	Mach No.	IV/530-533
Longitudinal Characteristics of Configuration T3B5 at Beta = 0	A	Mach No.	IV/534-543
Lateral-Directional Characteristics of Configuration T3B5 at Alpha = 0	C	Mach No.	IV/544-547

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS	CONDITIONS VARYING	VOLUME/PAGE NO.
SCHEDULE			
Effects of Beta on Longitudinal Characteristics of OL	A	Beta	V/1-60
Effects of Beta on Lateral-Directional Characteristics of OL	B	Beta	V/61-78
Effects of Alpha on Rudder Effectiveness of Configuration OL at Beta = 0	B	Rudder Deflection	V/79-90
Effects of Alpha on Rudder Effectiveness of Configuration OL	B	Rudder Deflection	V/91-93
Effects of Beta on Longitudinal Characteristics of OL	A	Beta	V/94-123
Effects of Beta on Lateral-Directional Characteristics of OL	B	Beta	V/124-132
Effects of Beta on Longitudinal Characteristics V Off	A	Beta	V/133-162
Effects of Beta on Lateral-Directional Characteristics V Off	B	Beta	V/163-171
Effects of Beta on Lateral-Directional Characteristics of OL	B	Beta	V/172-186
Effects of Beta on Lateral-Directional Characteristics of OL	B	Beta	V/187-201
Longitudinal Characteristics of Various Tanks at Beta = 0	A	Configuration	V/202-261
Longitudinal Characteristics of Various Boosters Alone at Beta = 0 and Nominal MRC	A	Configuration	V/262-301

TABLE 6. (CONTINUED)

TITLE	PLOTTED COEFFICIENTS SCHEDULE		CONDITIONS VARYING	VOLUME/ PAGE NO.
	A	B		
Longitudinal Characteristics of Various Boosters Alone at Beta = 0 and Tank 1 MRC	A		Configuration	V/302-341
Lateral-Directional Characteristics of Various Boosters Alone at Beta = 0 and Tank 3 MRC	A		Configuration	V/342-381
Lateral-Directional Characteristics of Various Boosters Alone at Beta = 0 and Tank 1 MRC	B		Configuration	V/382-393
Lateral-Directional Characteristics of Various Boosters Alone at Alpha = 0 and Nominal MRC	C		Configuration	V/394-405
Lateral-Directional Characteristics of Various Boosters Alone at Alpha = 0 and Tank 1 MRC	C		Configuration	V/406-421
Lateral-Directional Characteristics of Various Boosters Alone at Alpha = 0 and Tank 3 MRC	C		Configuration	V/422-437
Lateral-Directional Characteristics of Various Boosters Alone at Alpha = 0 and Tank 3 MRC	A		Configuration	V/438-453
Comparison of Longitudinal Characteristics of Booster BL with Larger Aft Flares S	A		Configuration	V/454-523
Comparison of Longitudinal Characteristics of Booster BL with Flaps D2 at Various Deflection	A		Flap Deflection	V/524-583
Comparison of Longitudinal Characteristics of Booster BL with Various Flaps	A		Flap Deflection	V/584-643

TABLE 6. (CONCLUDED)

PLOTTED COEFFICIENTS SCHEDULE:

(A) - CN, CA, CAF, CLM, CL & CDF vs. ALPHA

CN & CL vs. CLM, CL & CLSQR vs. CDF

(B) - CY, CYN & CBL vs. ALPHA

(C) - CY, CYN, CBL & CAF vs. BETA

(D) - CY, CYN, CBL vs. BETA

(E) - CN, CAF, CLM, CL & CDF vs. BETA

Notes:

1. Positive directions of force coefficients moment coefficients, and angles are indicated by arrows.
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity.

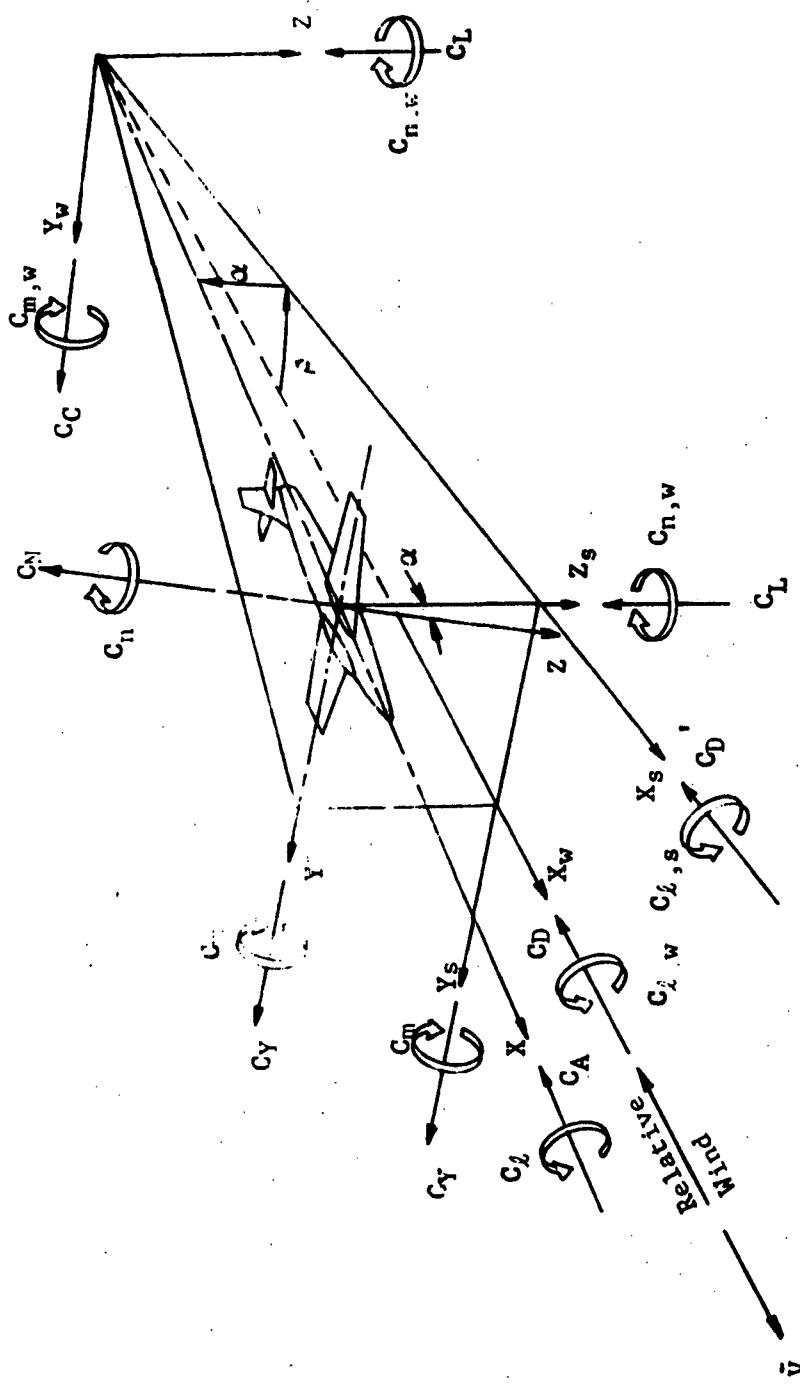


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

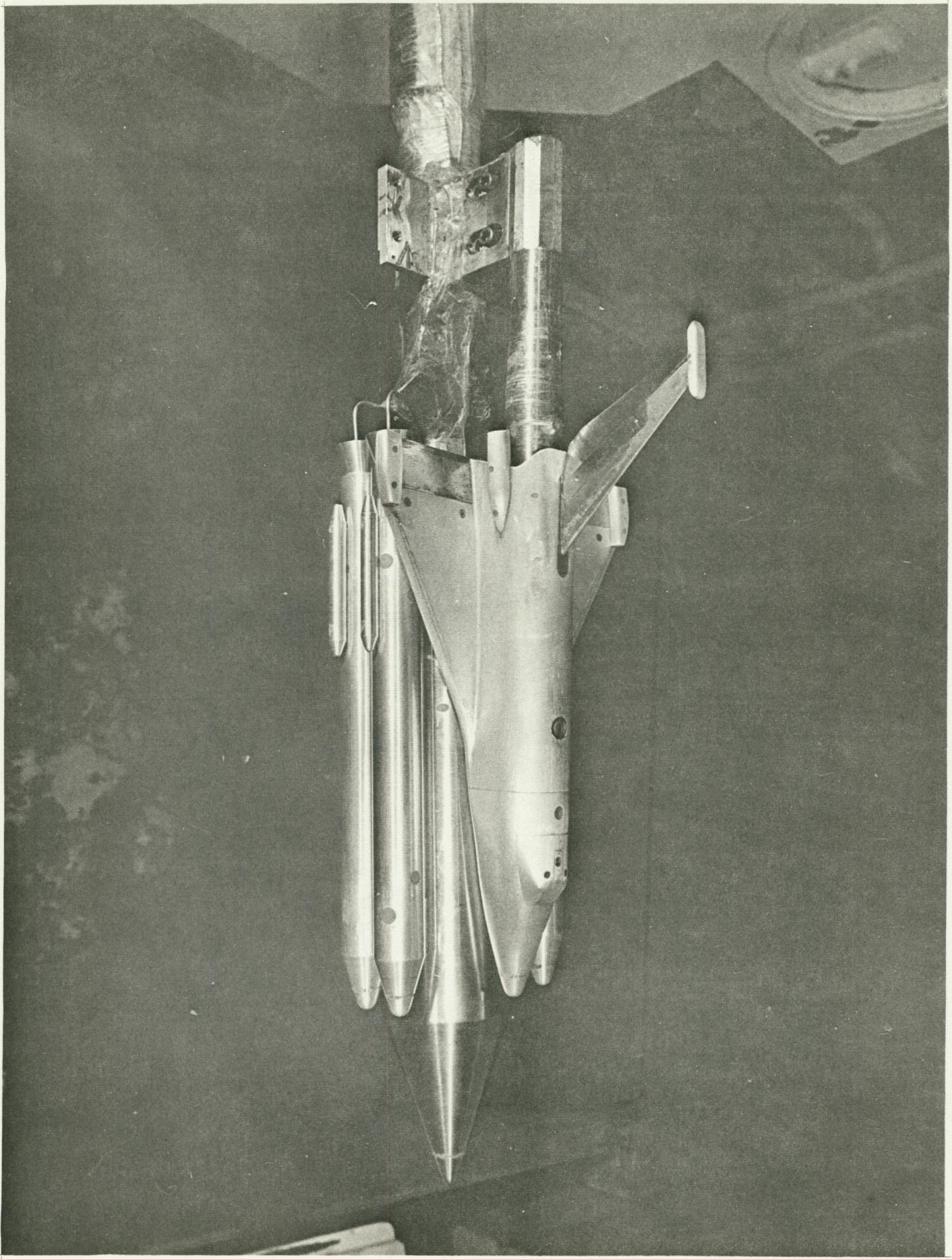


Figure 2. Photograph of Configuration (01)FL4B7A1-L

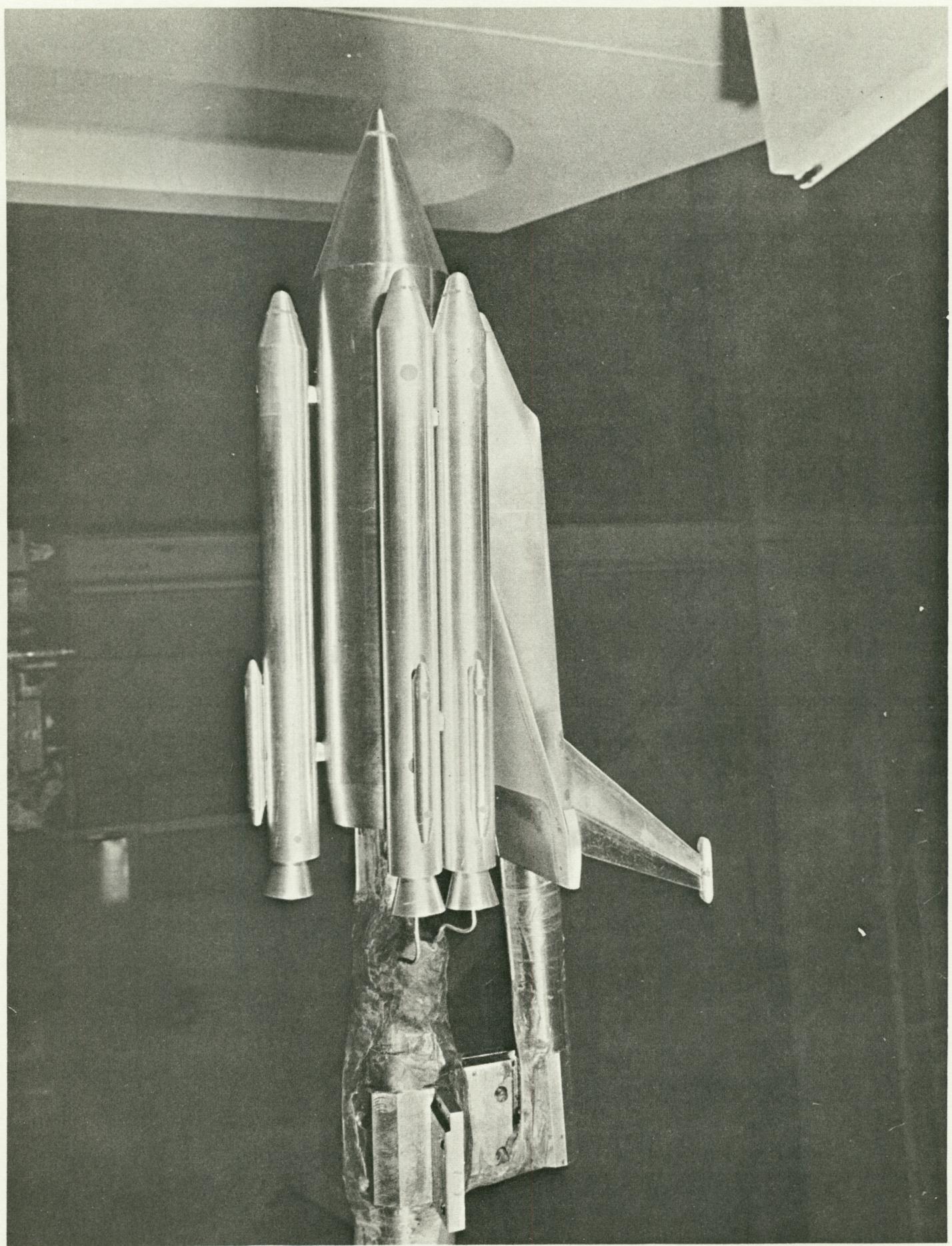


Figure 3. Photograph of Configuration (OL)T4B7A1-5

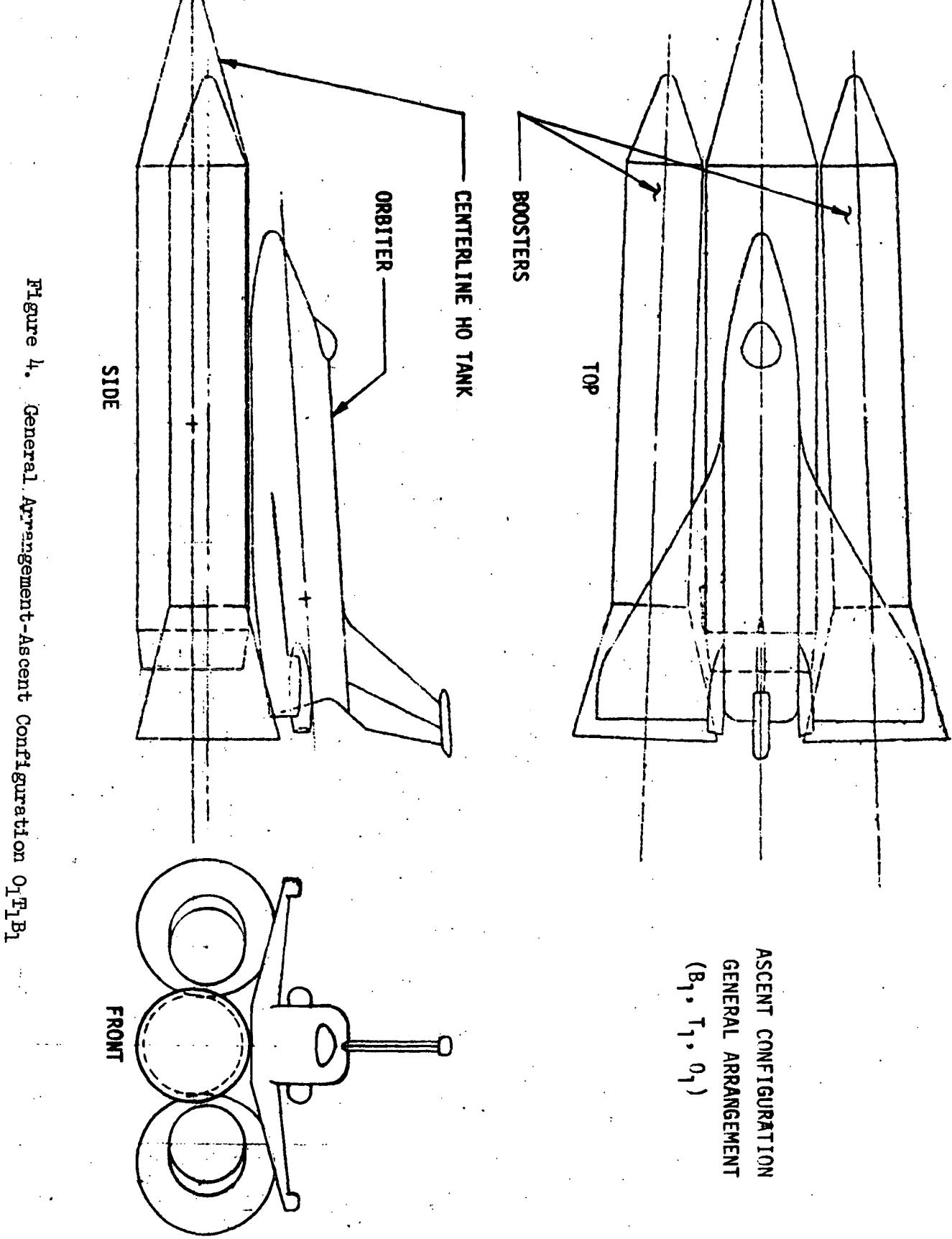


Figure 4. General Arrangement-Ascent Configuration O₁T₁B₁

B₁ OR B₅ BOOSTER LOCATION

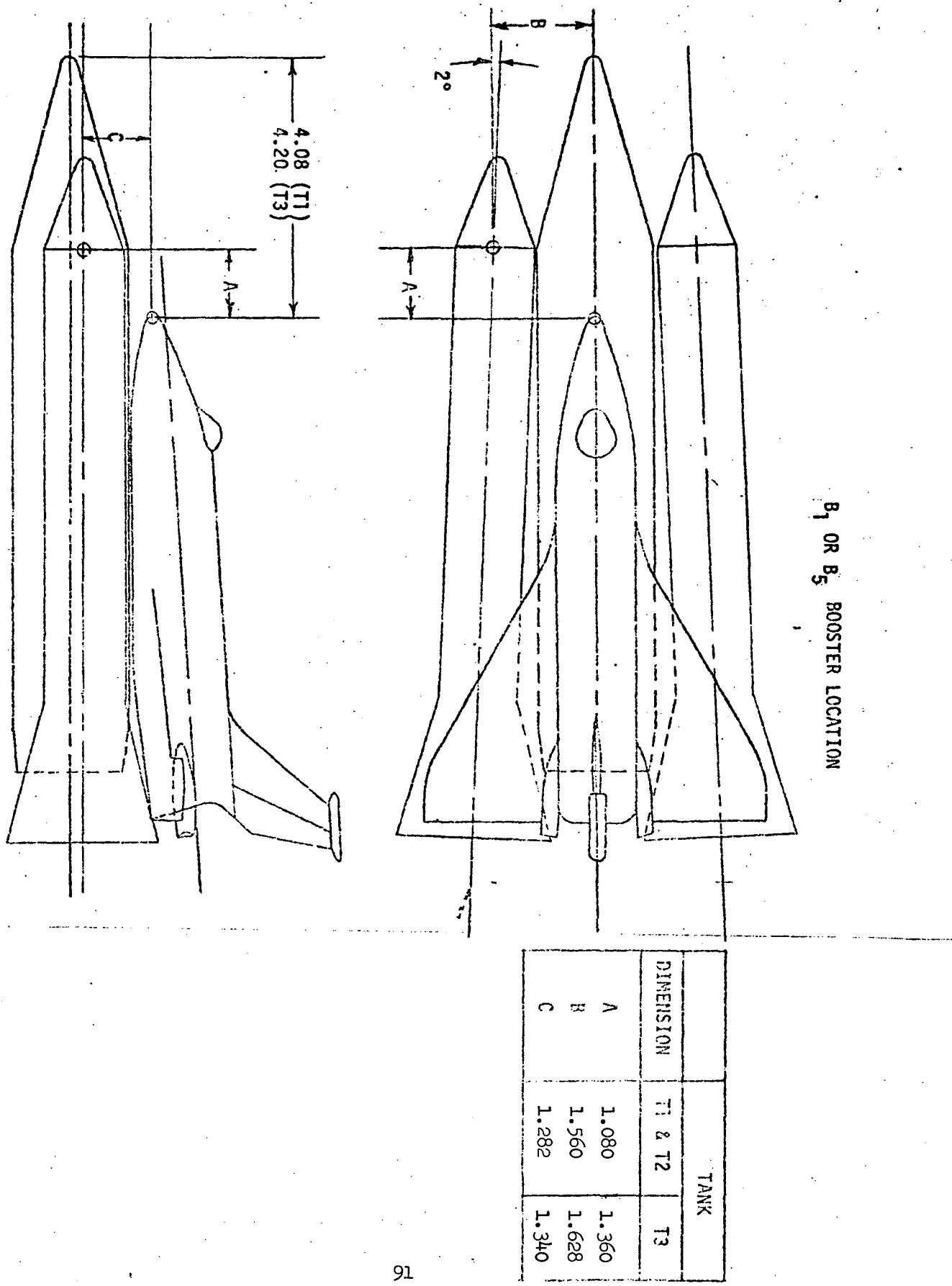


Figure 5. General Arrangement-Ascent Configuration
With Booster B₁ or B₅

B₂ AND B₂S BOOSTERS LOCATION

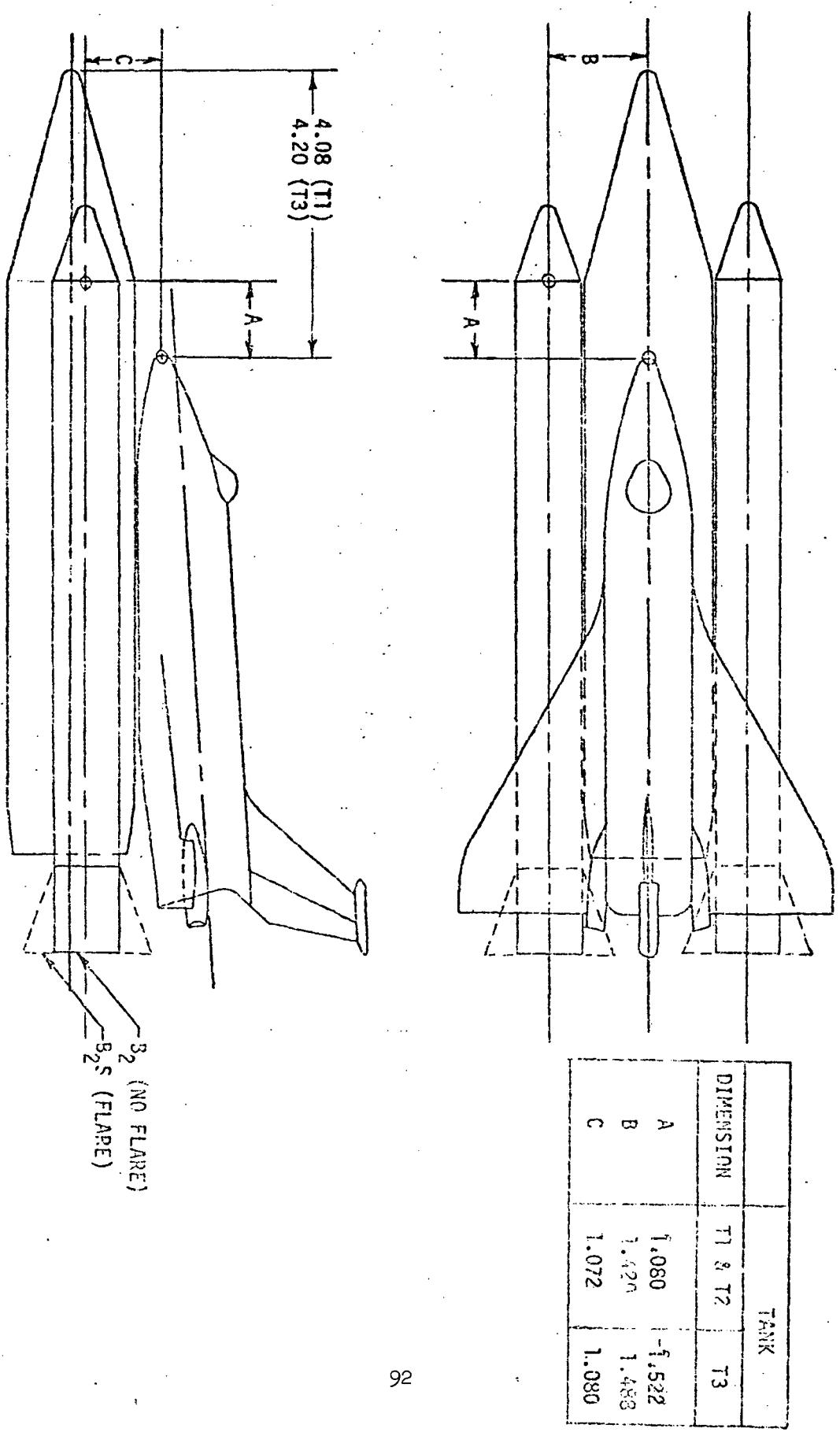


Figure 6. General Arrangement-Assent Configuration with Booster B₂ or B₂S

B₃ BOOSTER LOCATION

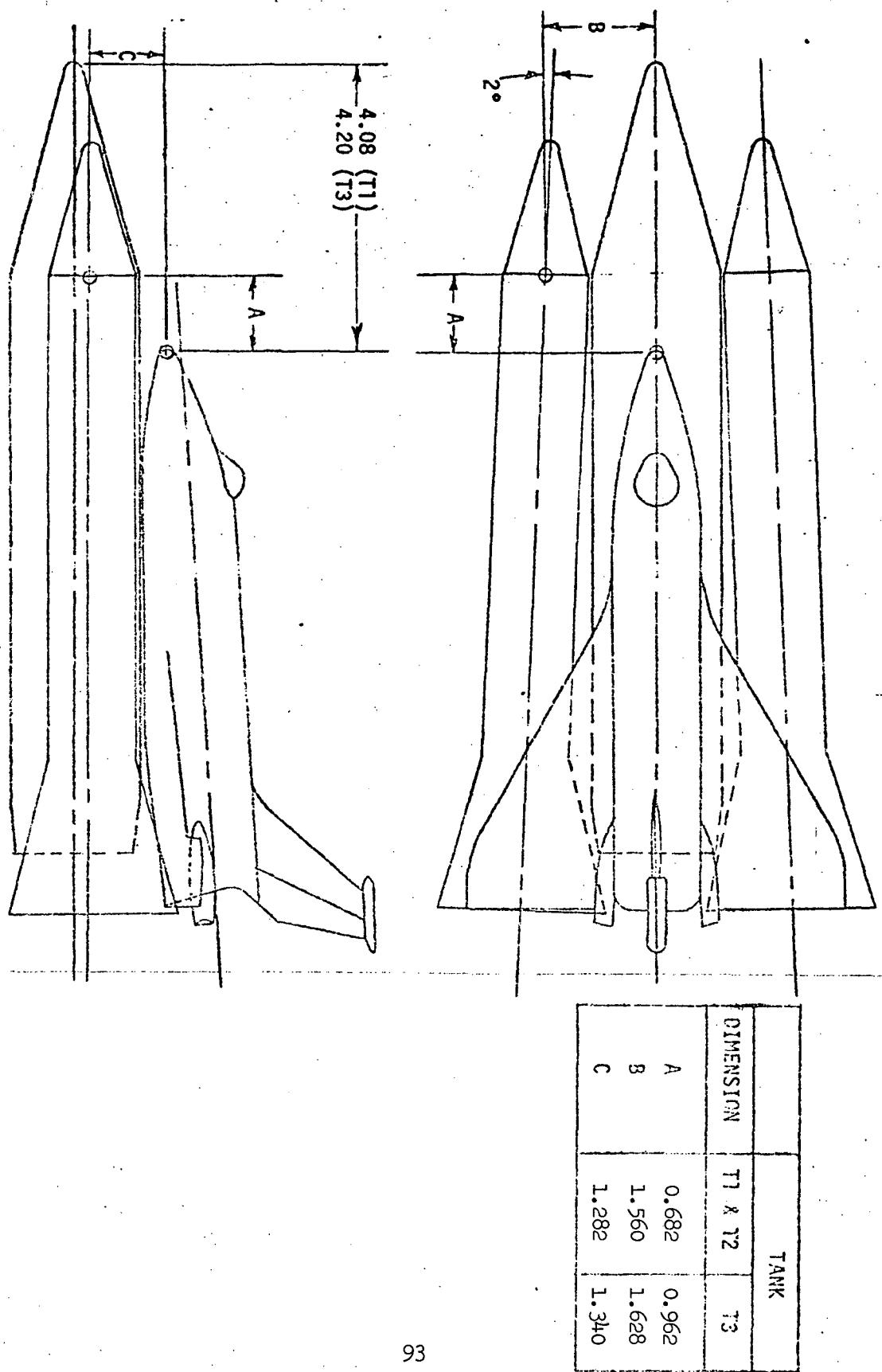
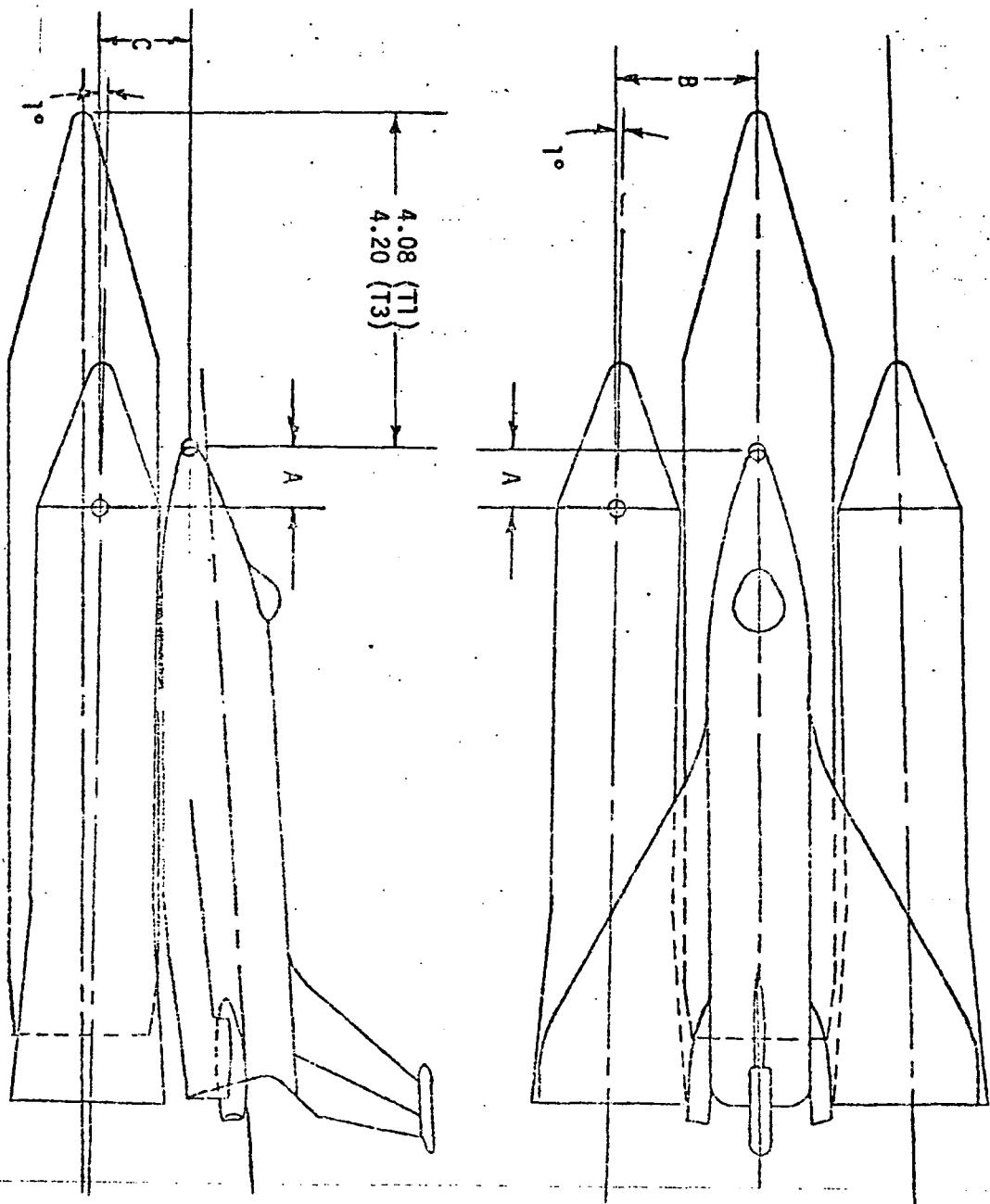


Figure 7. General Arrangement-Ascent Configuration with Booster B₃

B₄ BOOSTER LOCATION



DIMENSION	TANK	
	T1 & T2	T3
A	0.640	0.757
B	1.685	1.753
C	1.091	1.091

Figure 8. General Arrangement-Ascent Configuration with Booster B₄

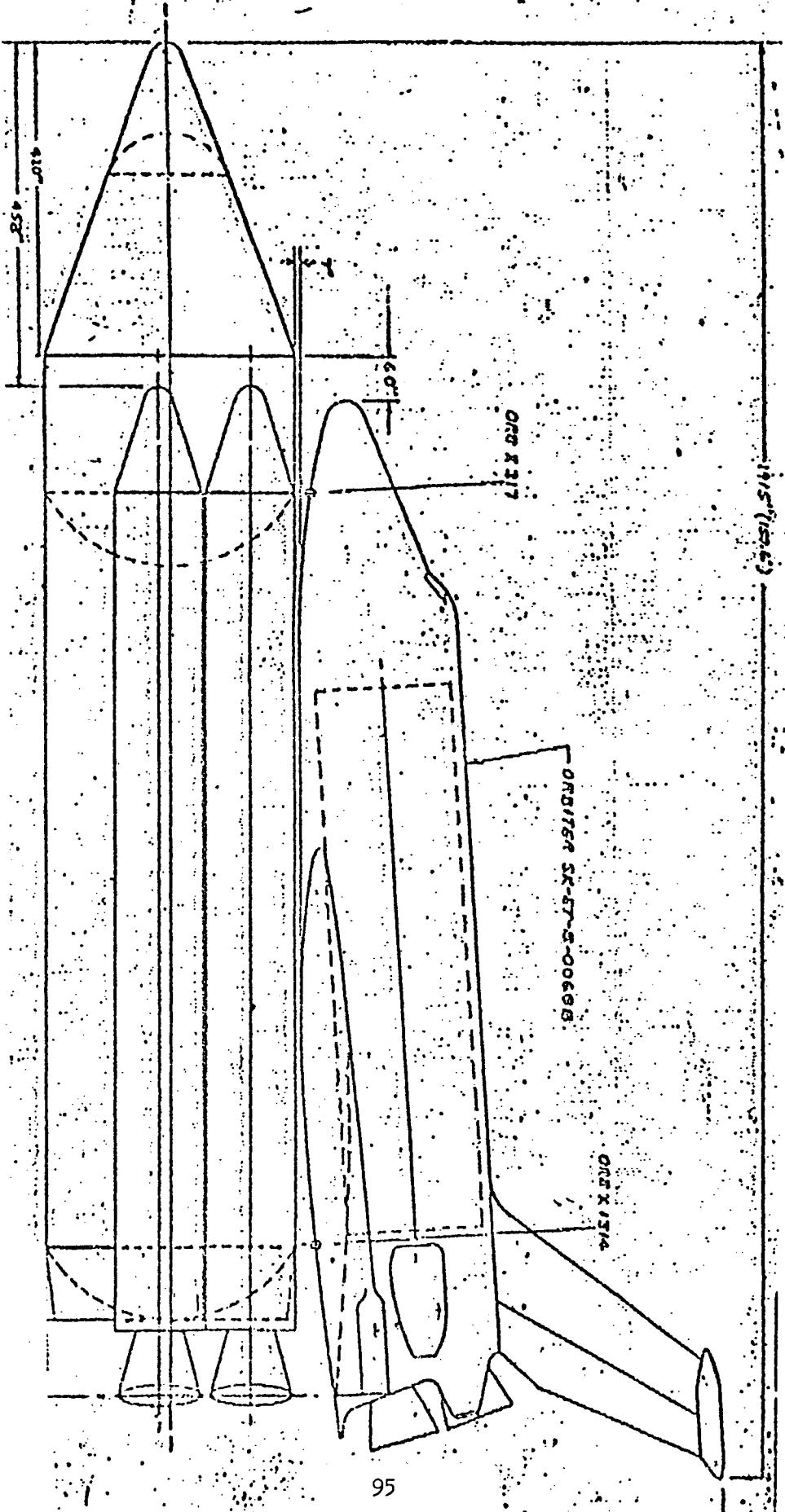


Figure 9. General Arrangement-Ascent Configuration
OLT4B7-4 (Side View)

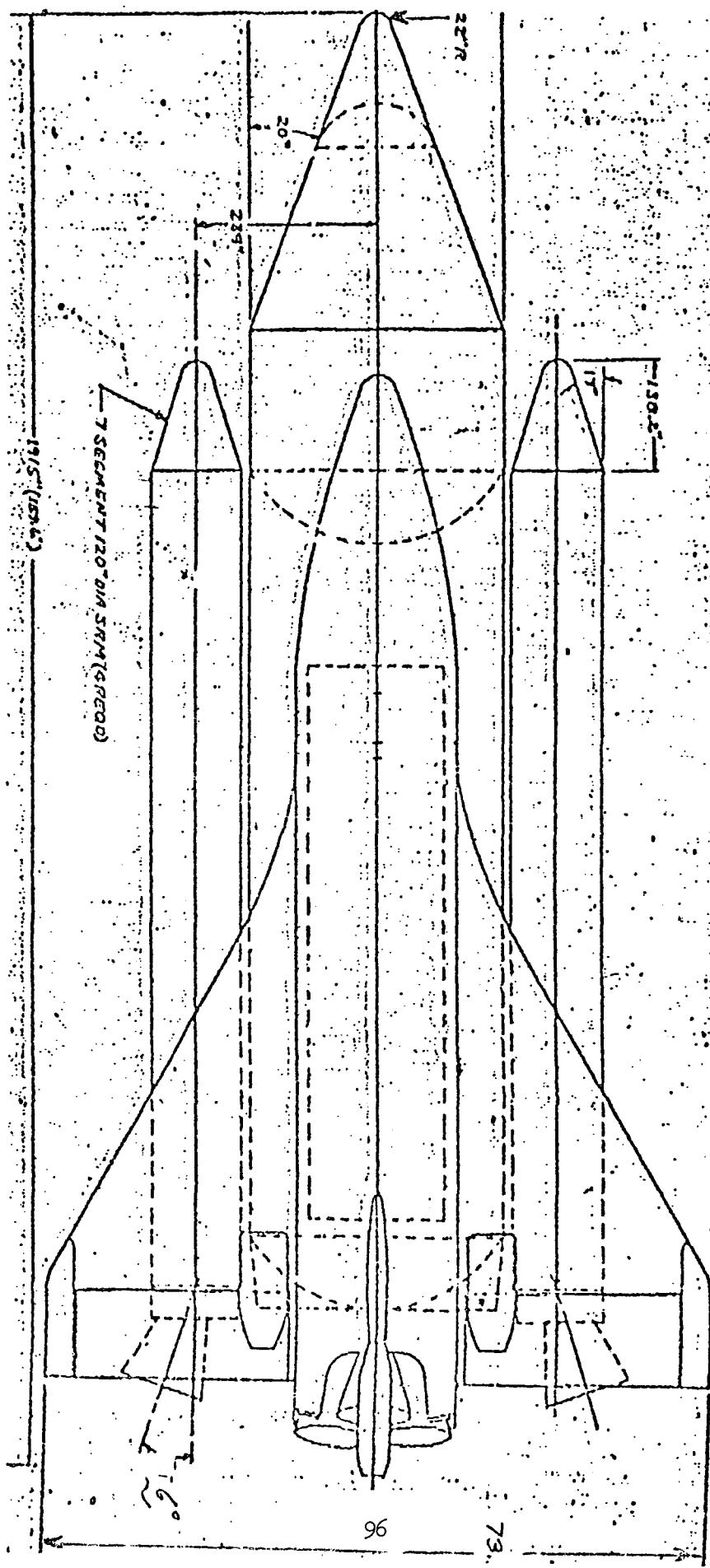
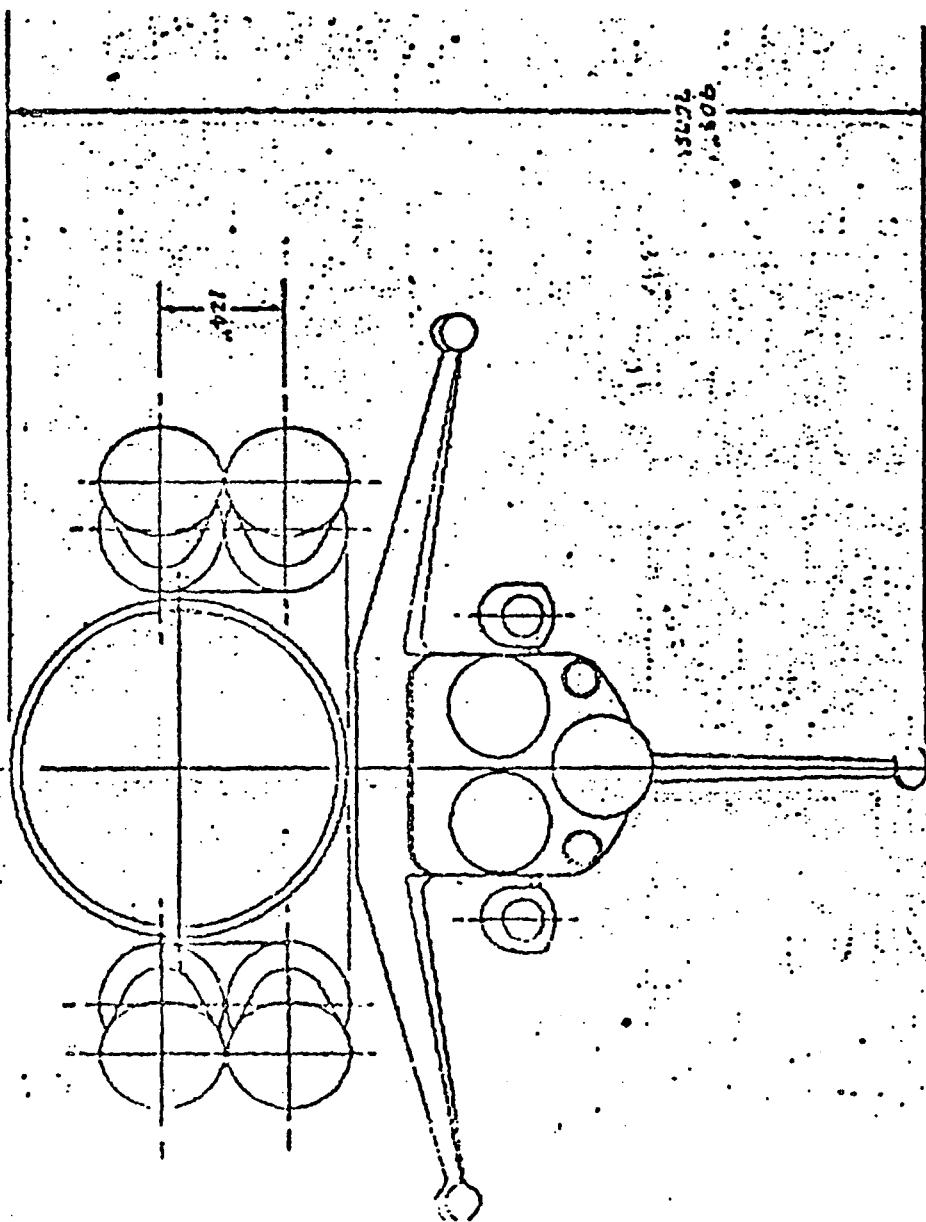


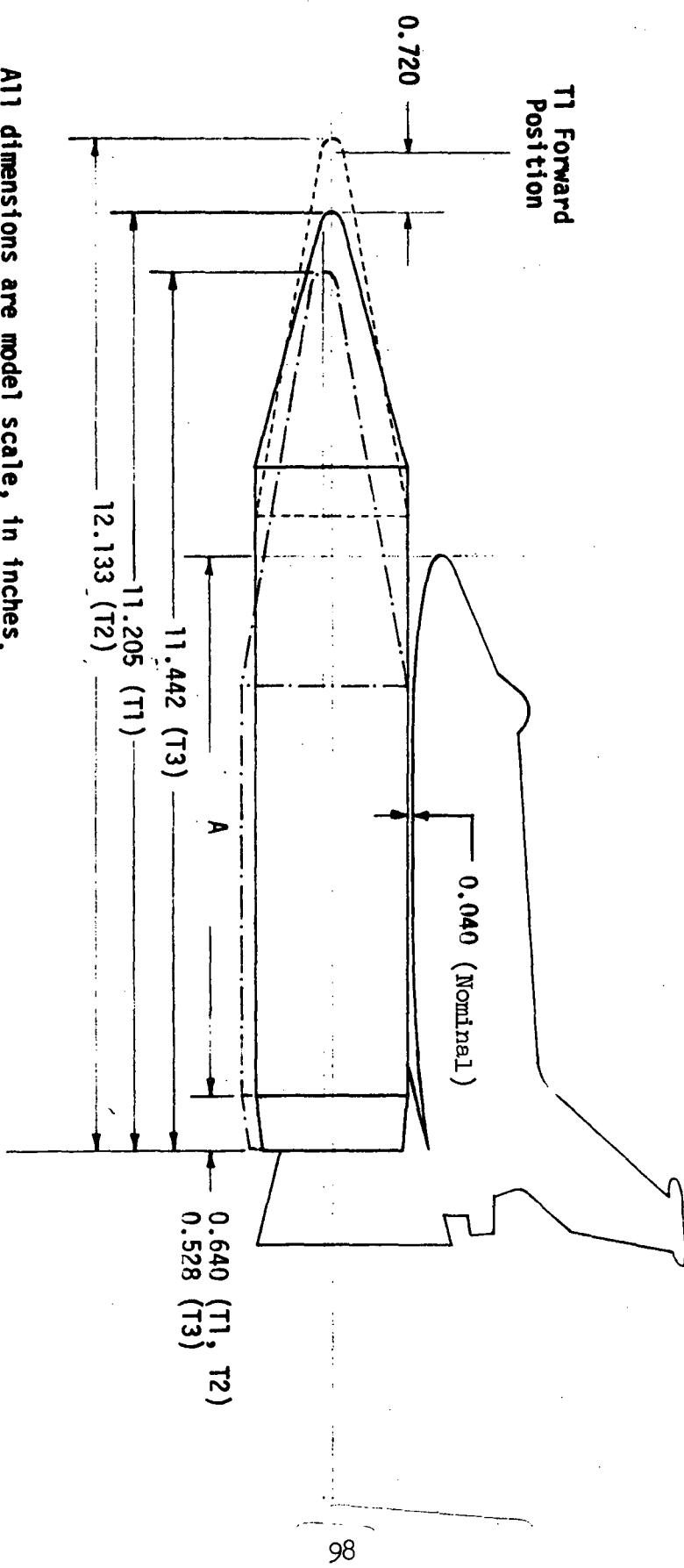
Figure 10. General Arrangement-Ascent Configuration
OLTMB7-4 (Top View)

Figure 11. General Arrangement-Ascent Configuration OLT4B7-4
(Rear View)



CENTERLINE HO TANK LOCATIONS

Orbiter Nose
X (200)
1.200



All dimensions are model scale, in inches.
Orbiter stations are given in both full scale and model scale dimensions.

TANK	A
T1	6.485
T2	6.485
T3	6.714

Figure 12. Centerline HO Tank Locations

MOMENT TRANSFER DIAGRAM
ASCENT CONFIGURATION

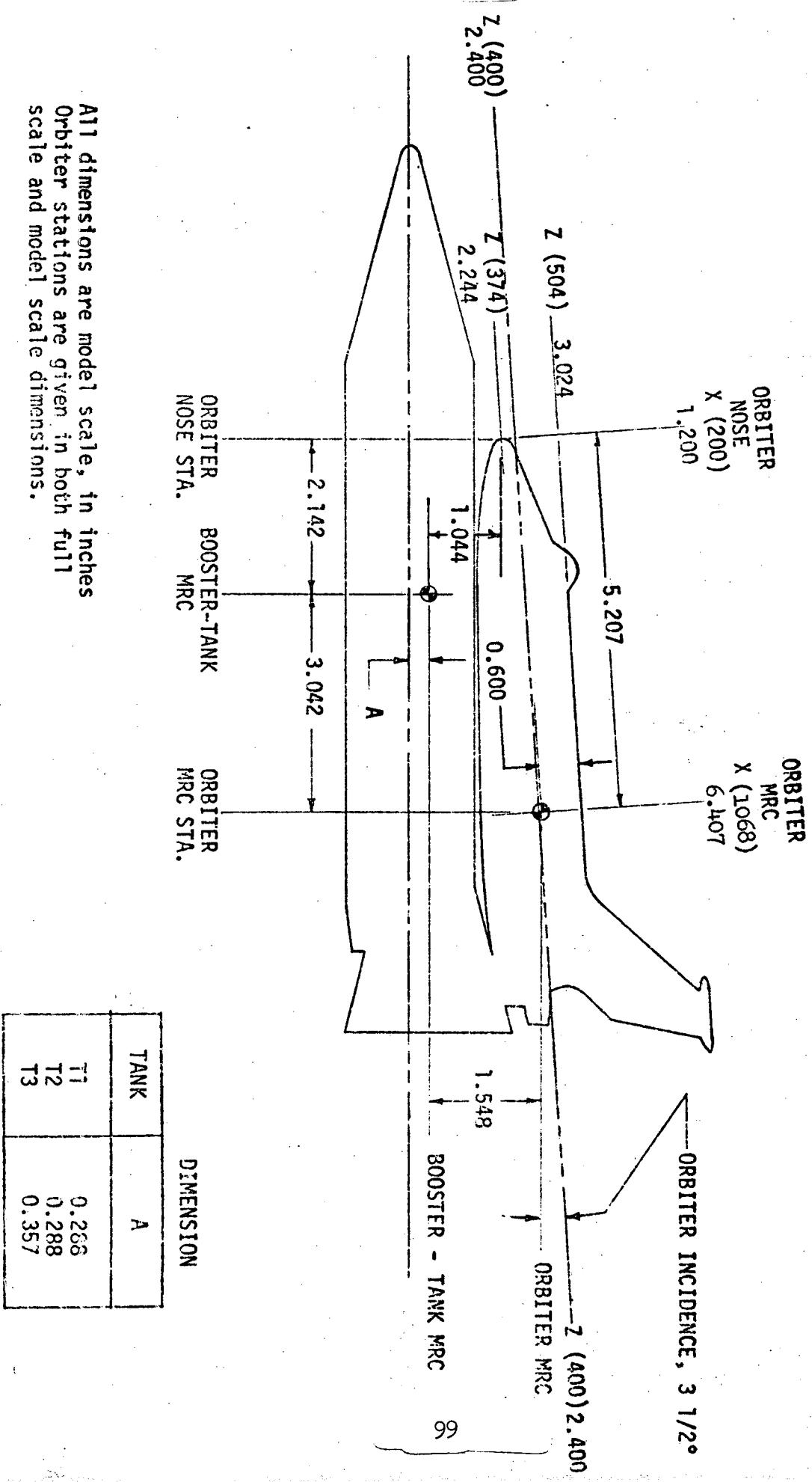
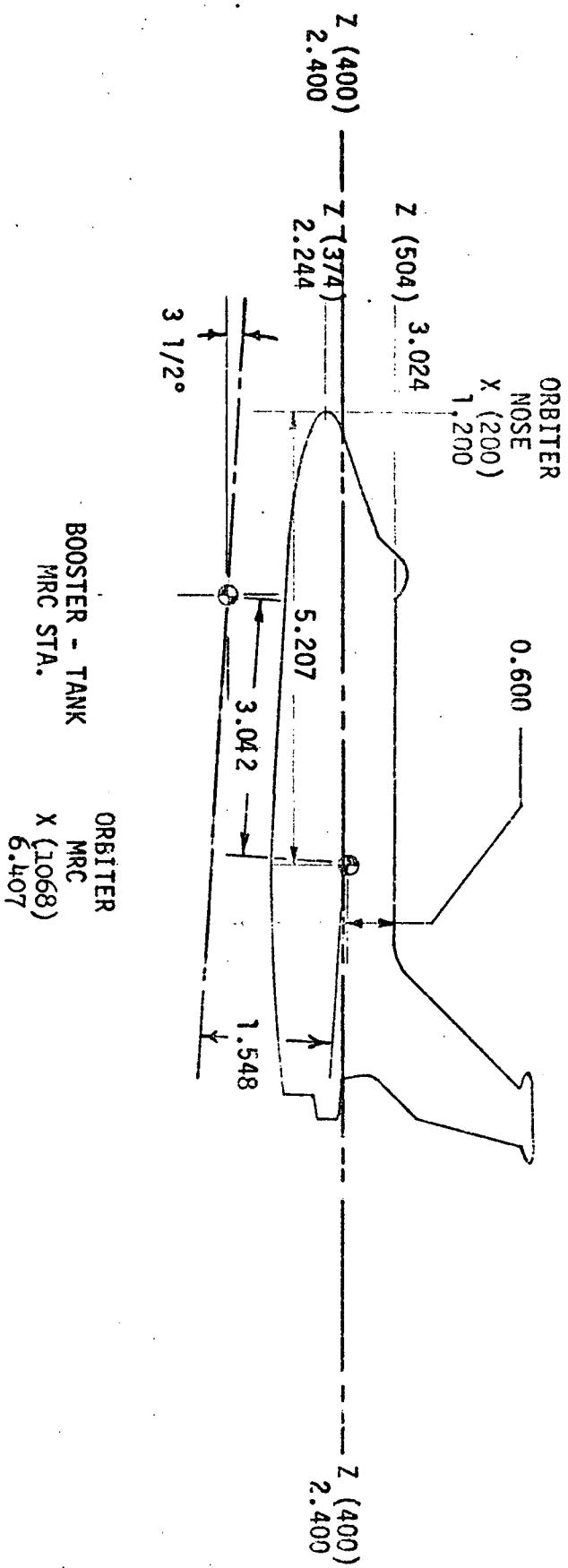


Figure 13. Moment Transfer Diagram for Ascent Configuration

All dimensions are model scale, in inches
Orbiter stations are given in both full
scale and model scale dimensions.

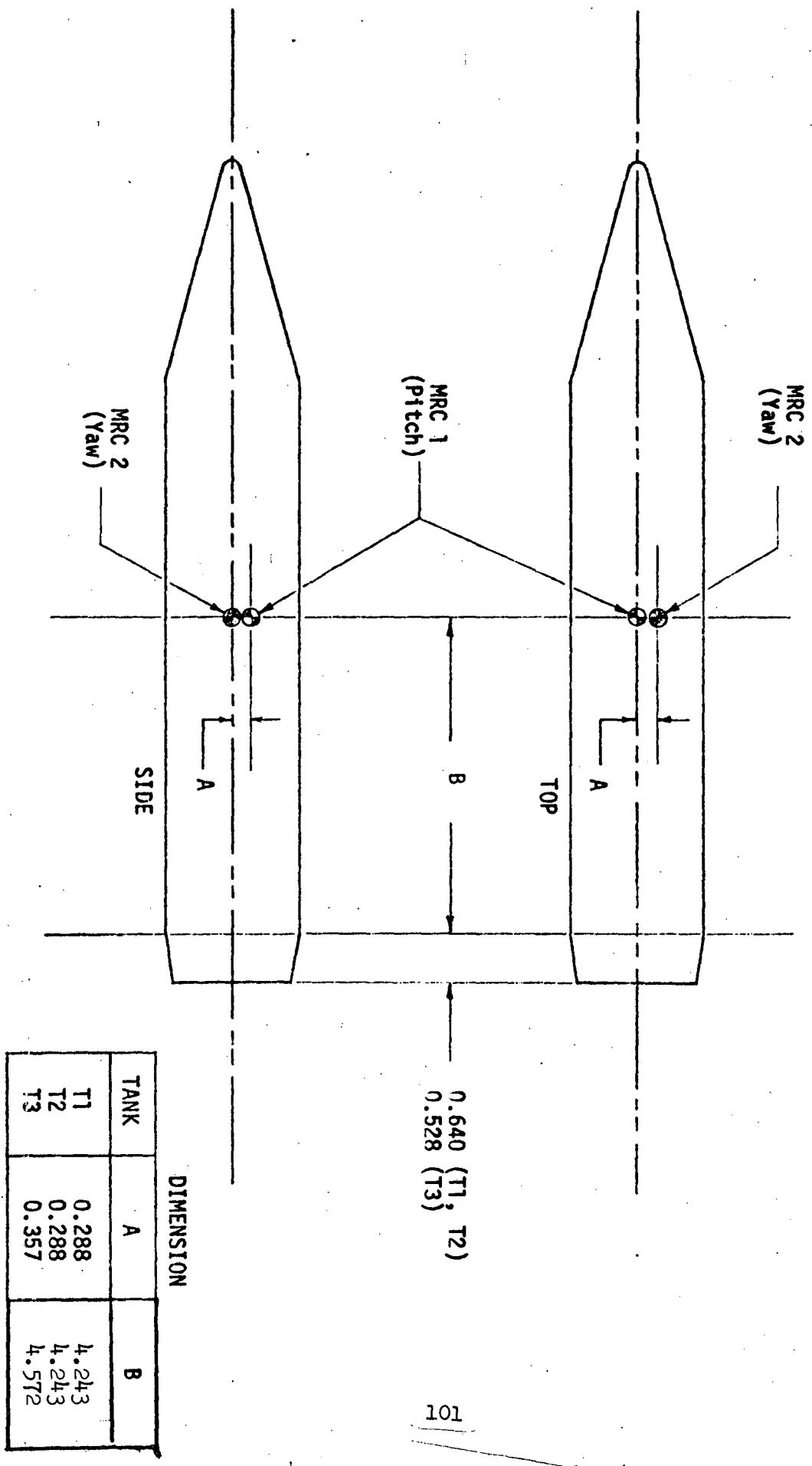
MOMENT TRANSFER DIAGRAM
ORBITER ALONE



All dimensions are model scale, in inches
Orbiter stations are given in both full
scale and model scale dimensions.

Figure 14. Moment Transfer Diagram for Orbiter Alone

MOMENT TRANSFER DIAGRAM CENTERLINE TANK ALONE



MOMENT TRANSFER DIAGRAM

B₁ Booster Alone

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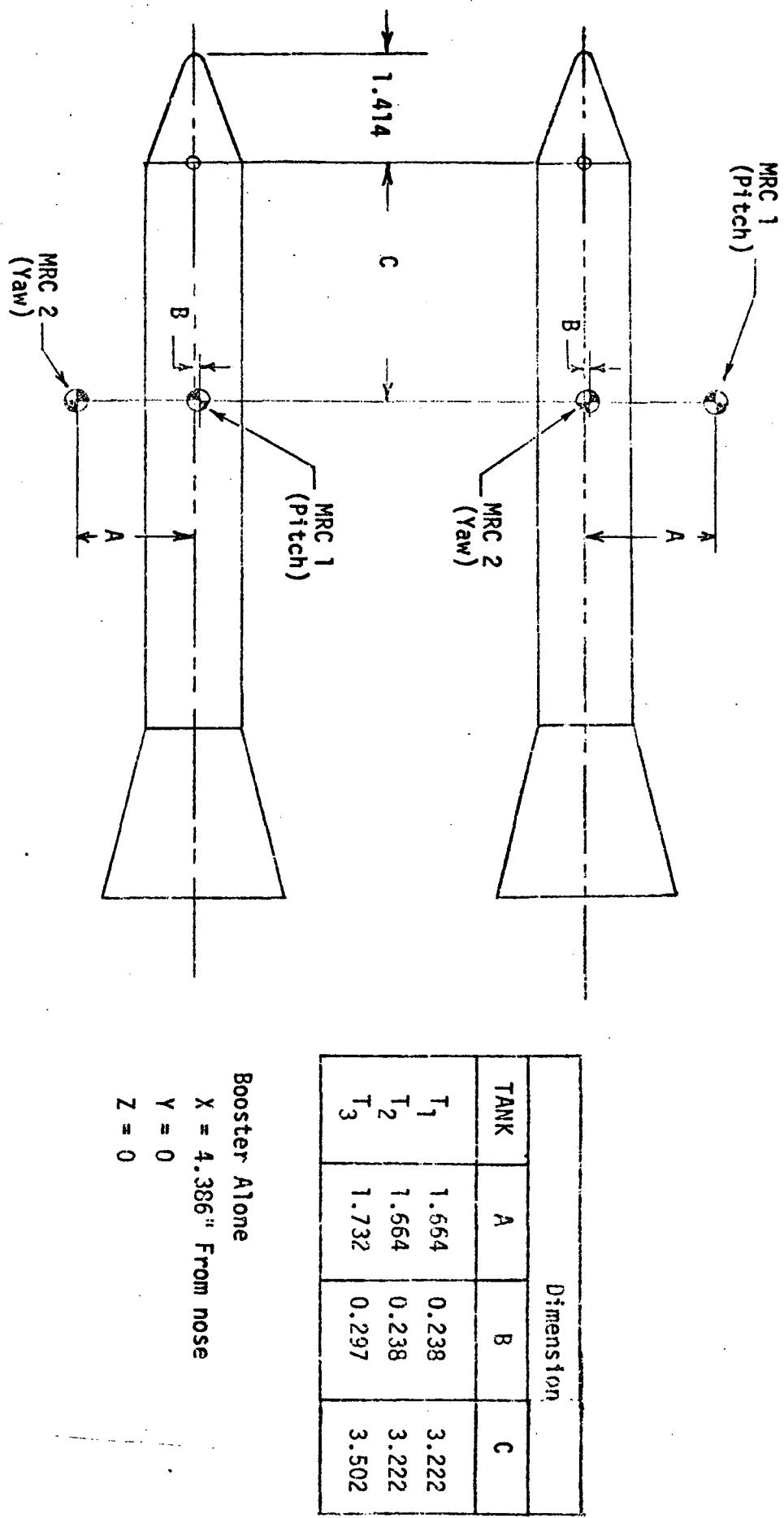


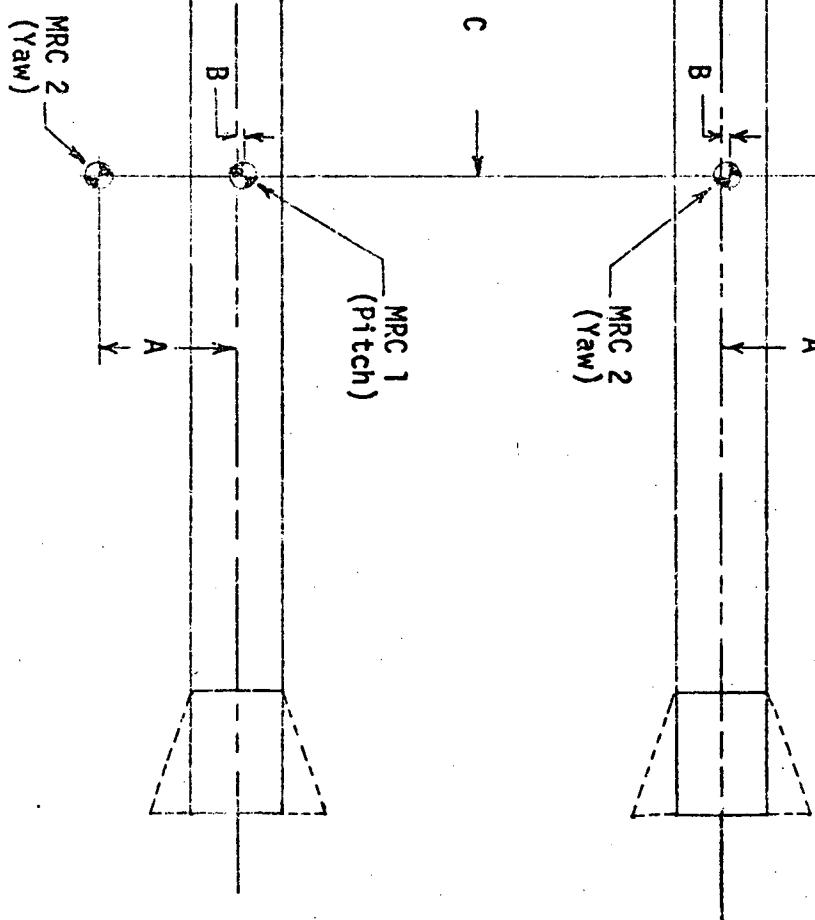
Figure 16. Moment Transfer Diagram for B1 Booster Alone

**MOMENT TRANSFER DIAGRAM
B₂ and B₂S Boosters Alone**

MRC 1
(Pitch)

MRC 2
(Yaw)

MRC 1
(Pitch)



		DIMENSION		
TANK	A	B	C	
T ₁	1.420	0.058	3.222	
T ₂	1.420	0.058	3.222	
T ₃	1.488	0.037	3.664	

Booster Alone

X = 4.091" From nose

Y = 0

Z = 0

Figure 17. Moment Transfer Diagram for B2 & B2S Boosters Alone

MOMENT TRANSFER DIAGRAM

B₃ Booster Alone

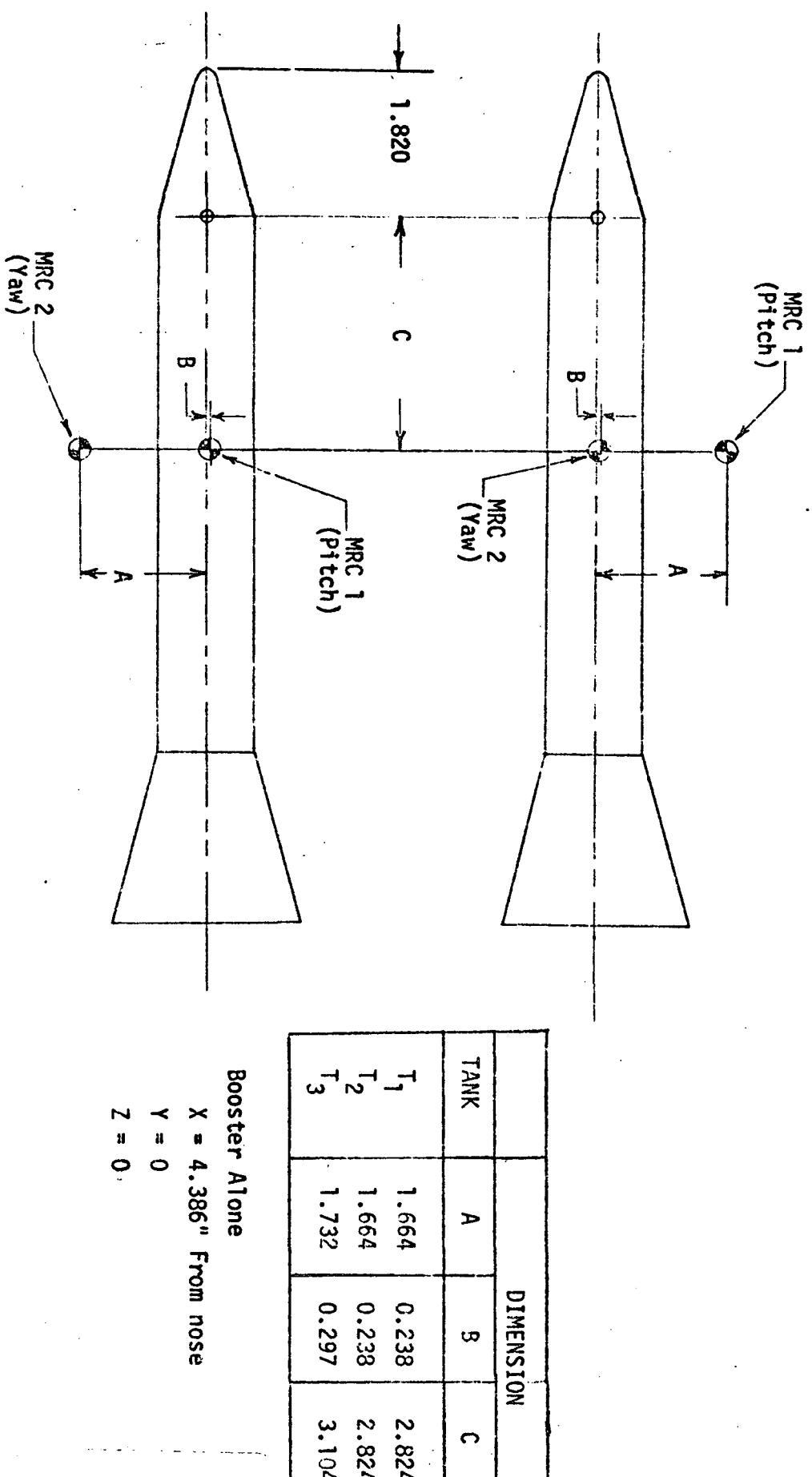


Figure 18. Moment Transfer Diagram for B3 Booster Alone

MOMENT TRANSFER DIAGRAM

B₄ Booster Alone

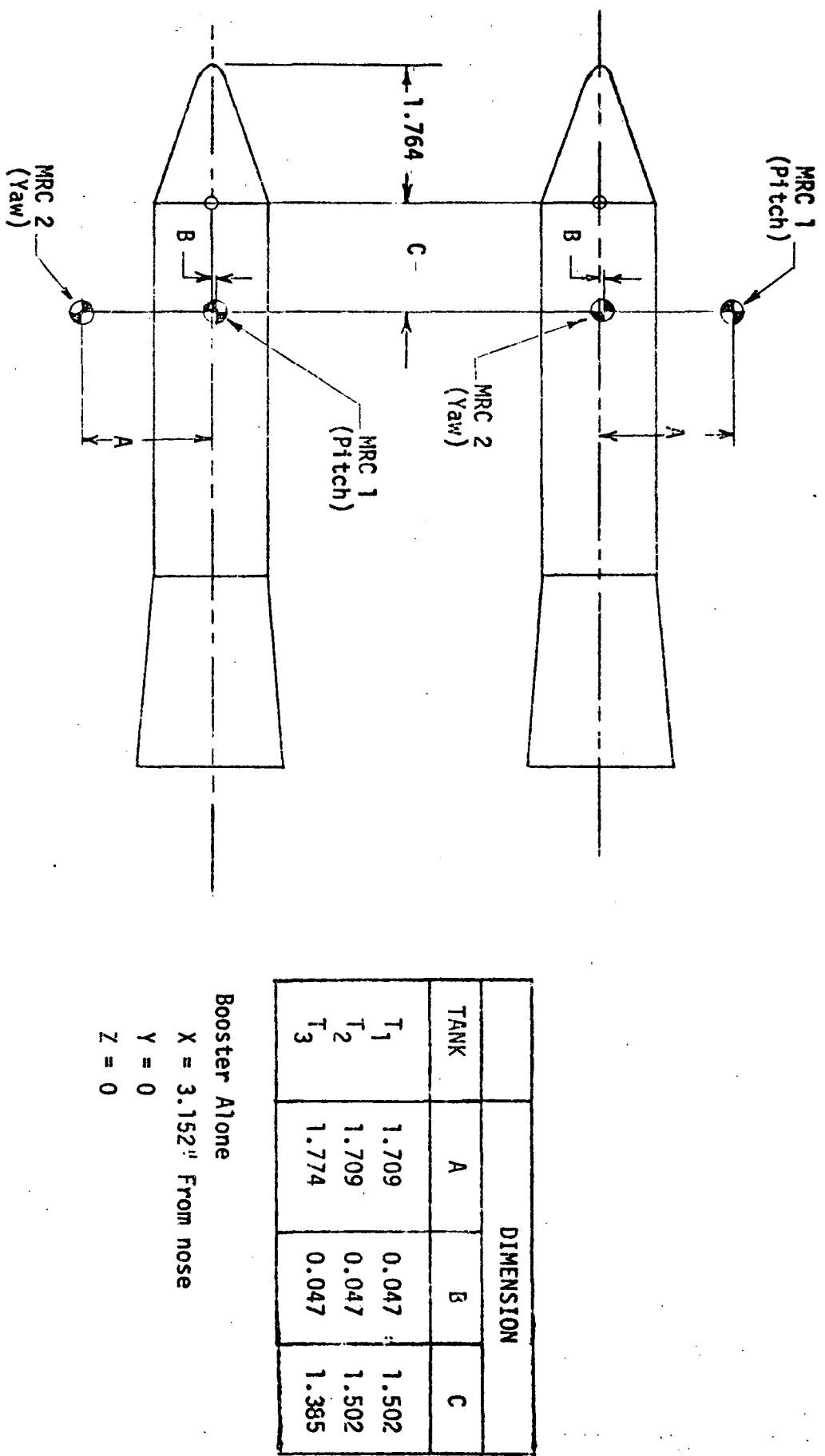
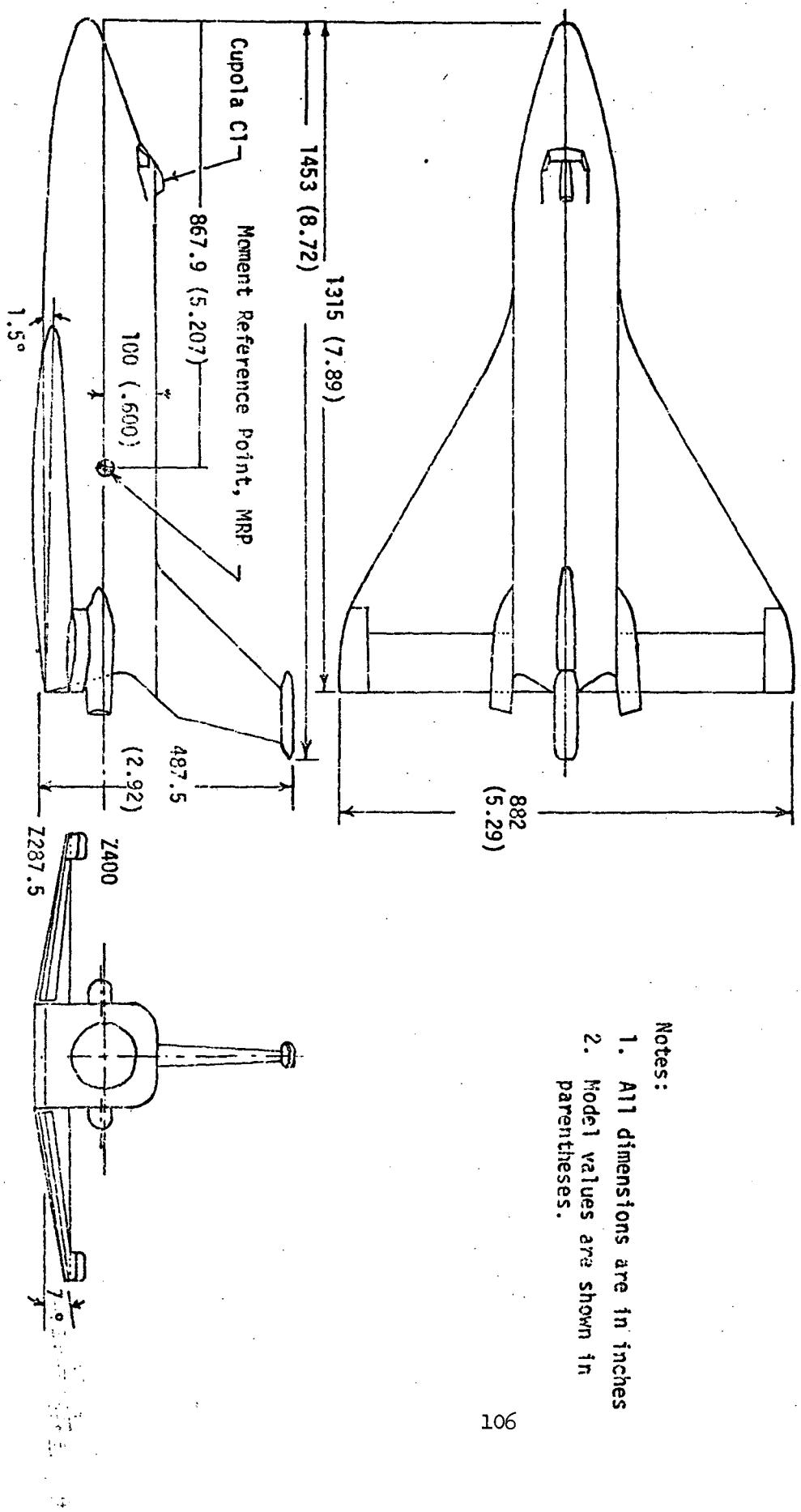
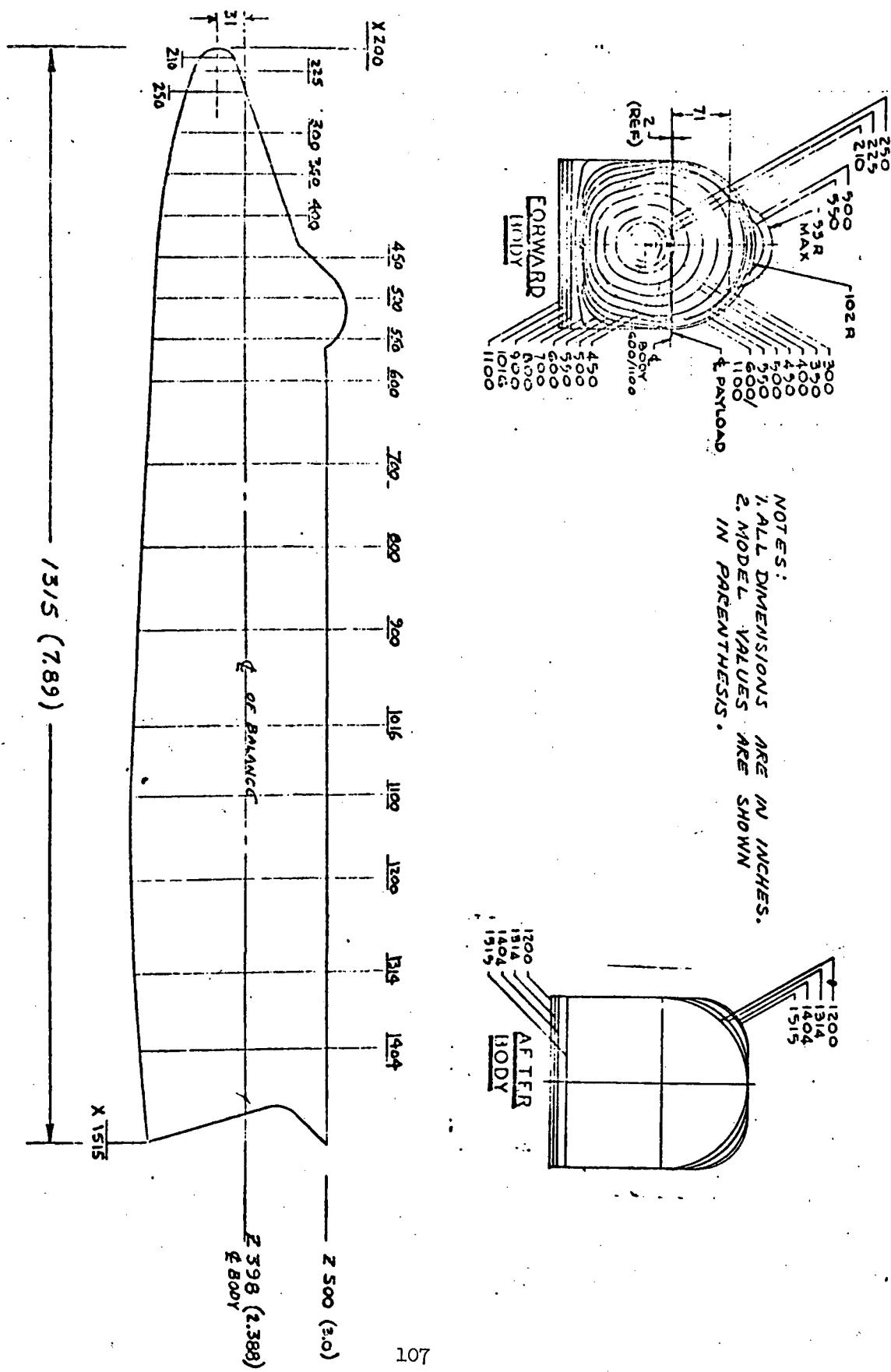


Figure 19. Moment Transfer Diagram for B₄ Booster Alone

GENERAL ARRANGEMENT 040A ORBITER



ORBITER BODY ~ B1



WING AND ELEVON ~ W1

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. MODEL VALUES ARE SHOWN
IN PARENTHESIS.

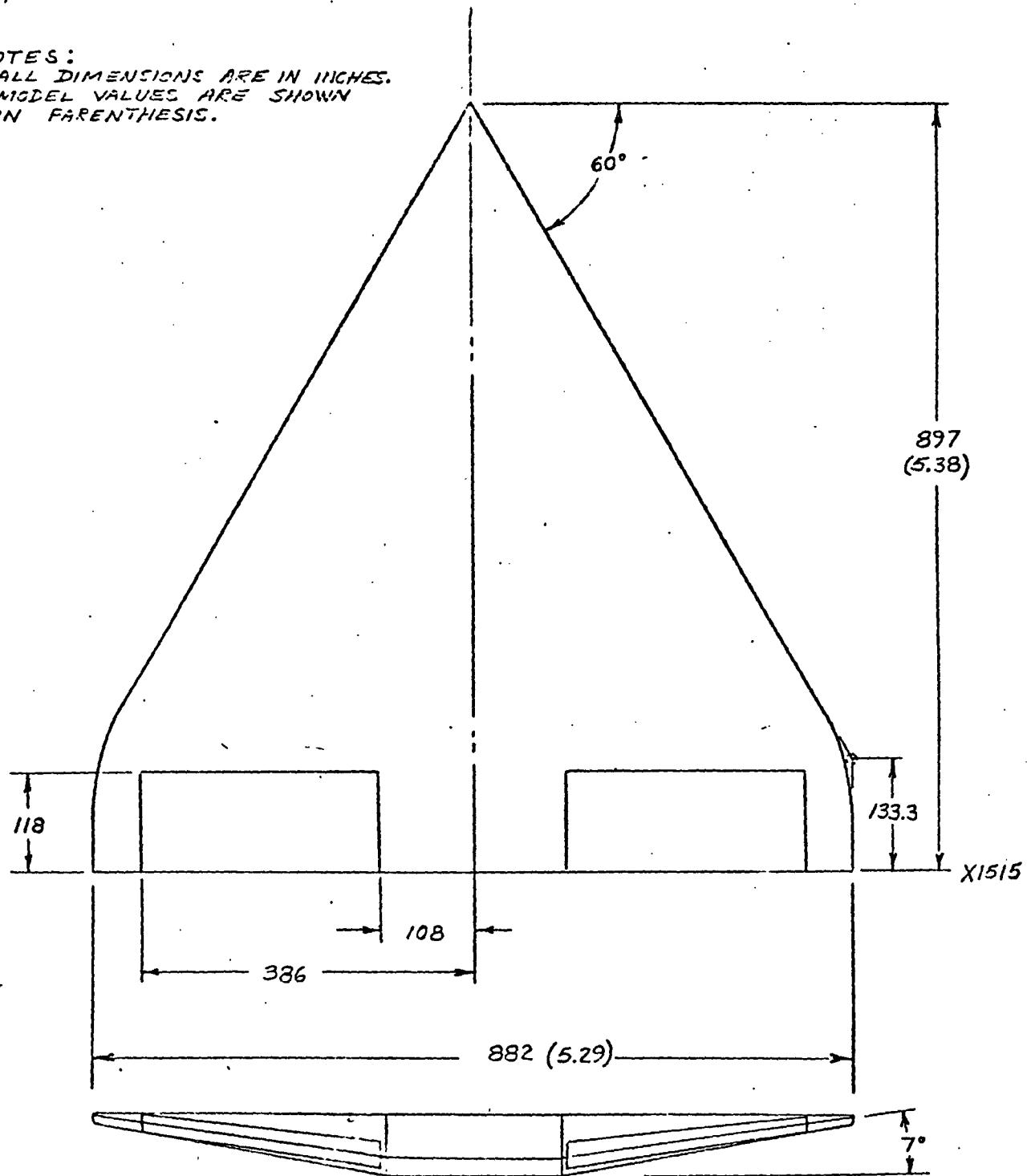
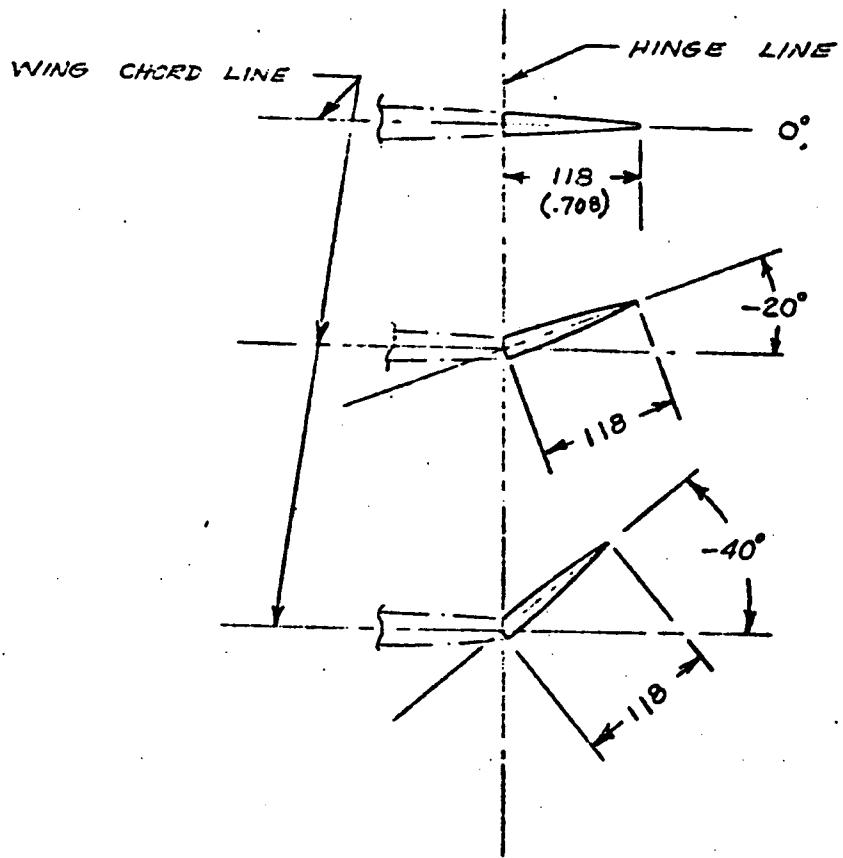
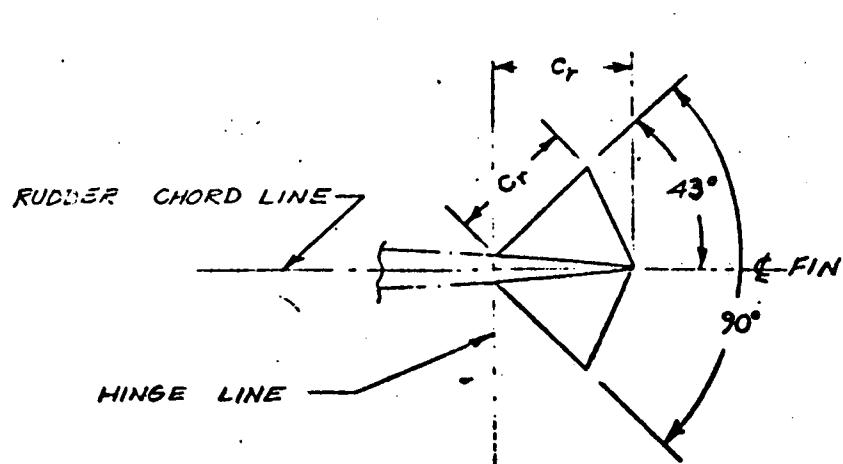


Figure 22. Wing and Elevon, W1

ELEVON DEFLECTIONS



RUDDER FLARE AT A TYPICAL SECTION



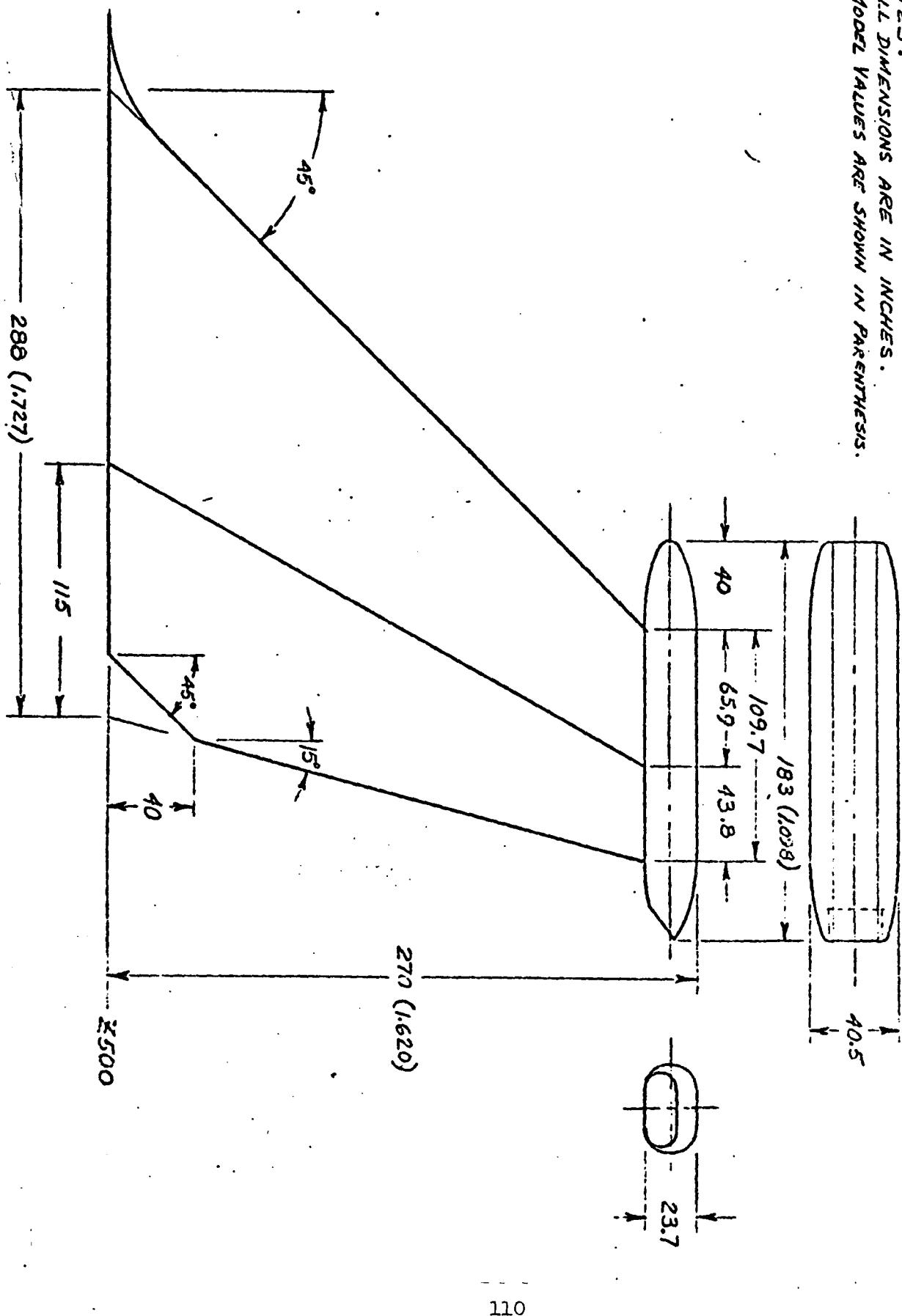
NOTES:
 1. DIMENSIONS ARE IN INCHES
 2. C_r IS RUDDER LOCAL CHORD.
 3. MODEL VALUES SHOWN IN PARENTHESES

Note: Additional rudder flare angle of $\pm 17.5^\circ$ was tested at $R_i = .6, .9, 1.2$ for lateral-directional data

Figure 23. Elevon Deflections and Rudder Flare

Figure 24. Vertical Fin and Rudder, V₁

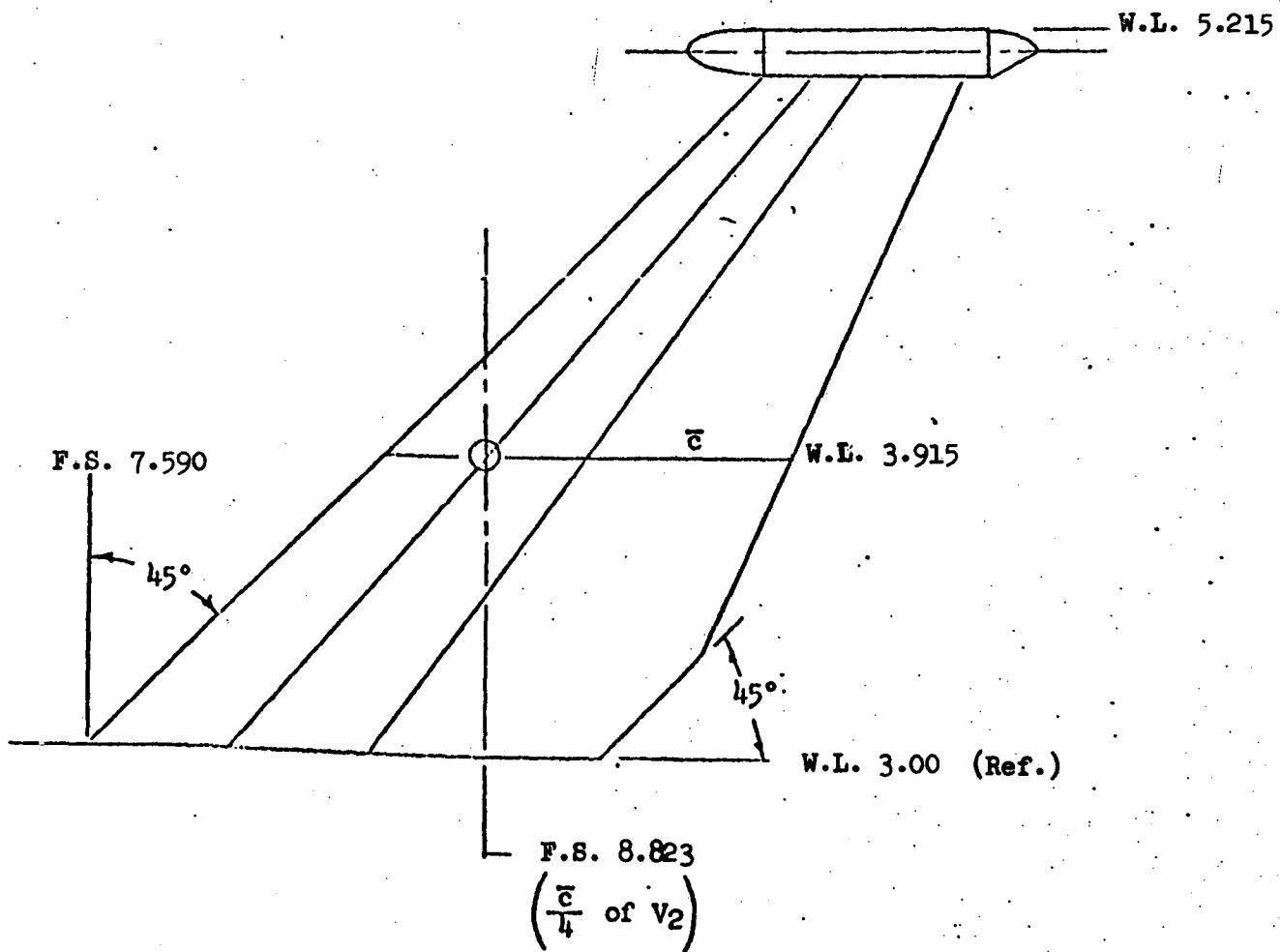
NOTES:
 1. ALL DIMENSIONS ARE IN INCHES.
 2. MODEL VALUES ARE SHOWN IN PARENTHESIS.



V₂ - LARGER AREA CENTERLINE VERTICAL TAIL AND RUDDER

$$\begin{aligned} S_v &= 2.514 \text{ in}^2 \\ b &= 2.215 \text{ in} \\ \bar{c} &= 1.239 \text{ in} \\ AR &= 1.95 \end{aligned}$$

$$\begin{aligned} C_R &= 1.728 \text{ in} \\ C_T &= 0.542 \text{ in} \\ \lambda &= 0.310 \\ \Lambda_{LE} &= 45^\circ \end{aligned}$$

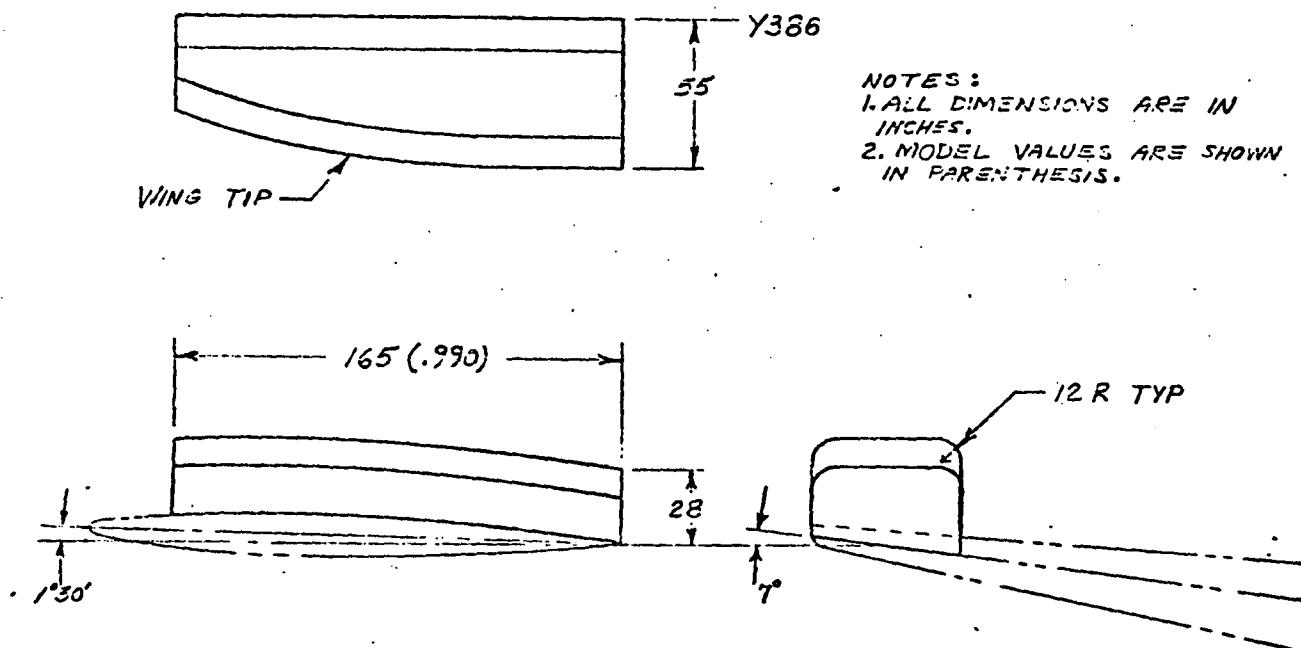


Note: All dimensions are model scale in inches.

Figure 25. Vertical Fin and Rudder, V₂

MCDONNELL DOUGLAS CORPORATION

ACPS ENGINE POD ~ PI



OMS ENGINE POD ~ M1

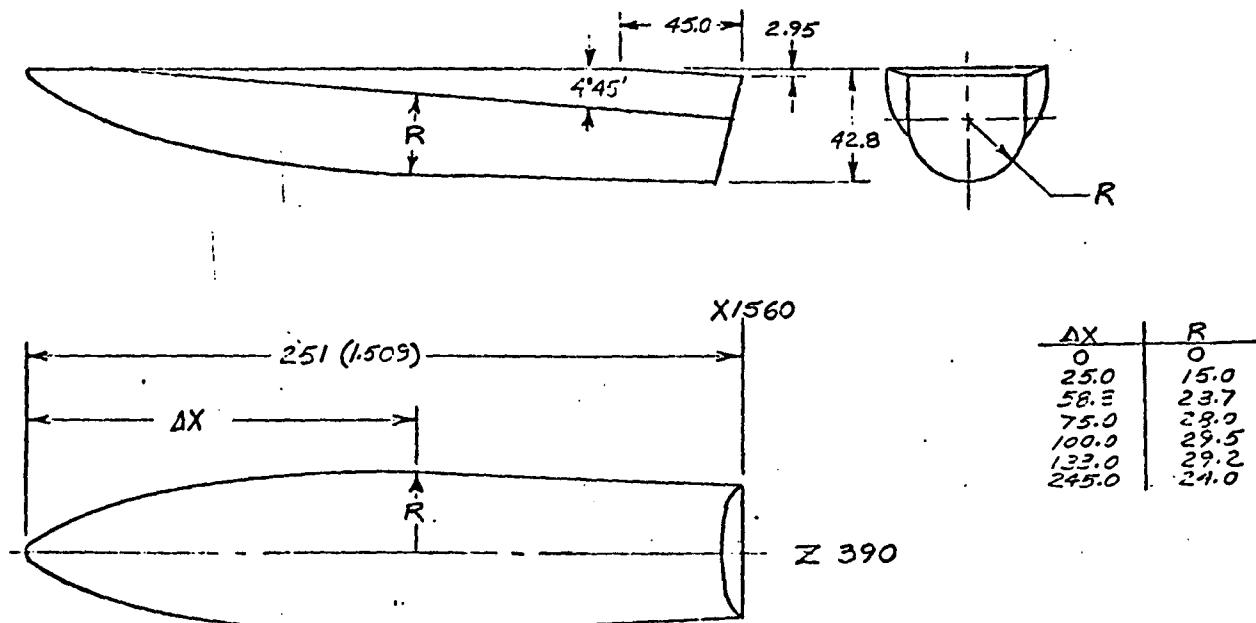
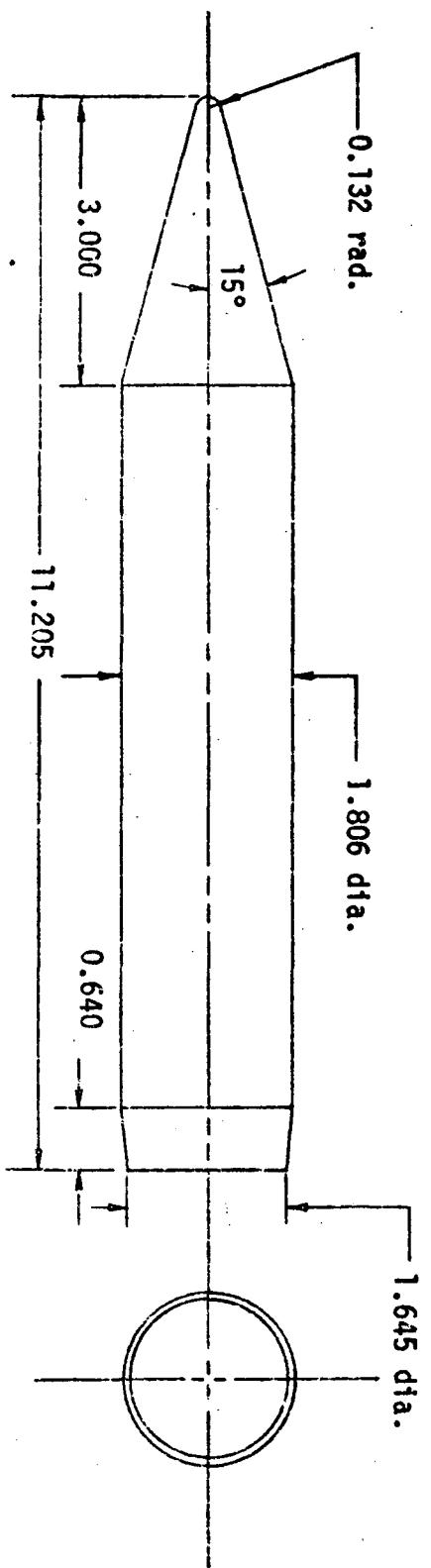


Figure 26. ACPS Engine Pod, PI and OMS Engine Pod, M1

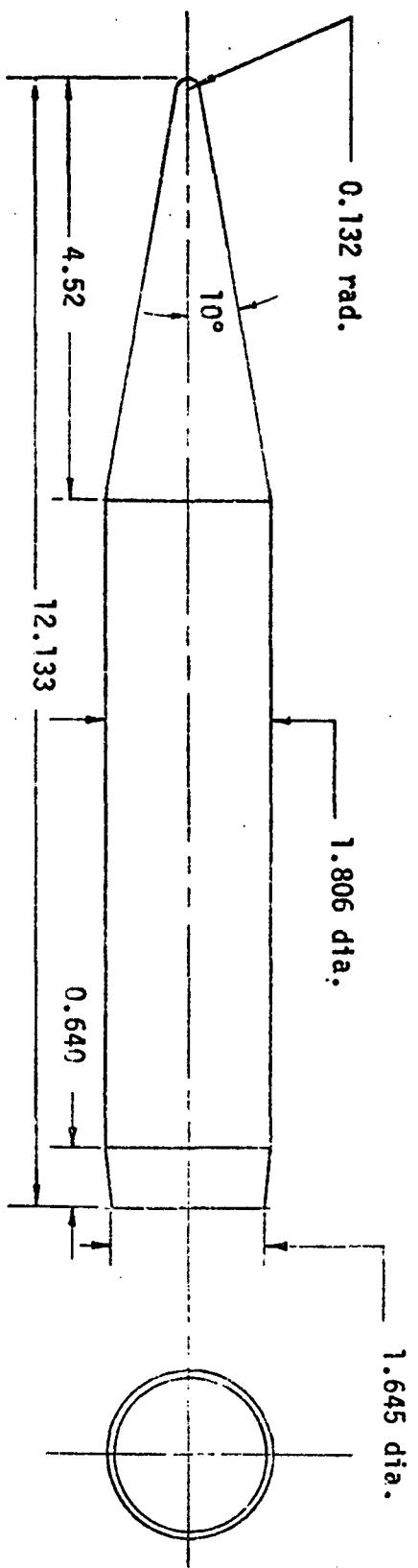
HO TANK, T_1



All dimensions are model scale, in inches.

Figure 27. Centerline HO Tank, T_1

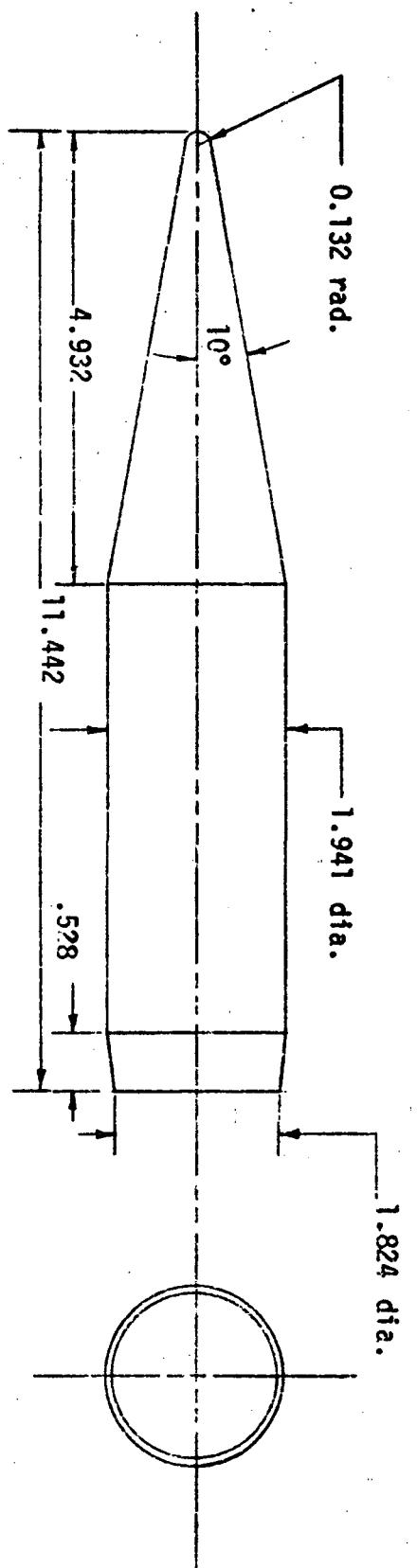
HO TANK, T₂



All dimensions are model scale, in inches.

Figure 28. Centerline HO Tank, T2

HO TANK, T₃



All dimensions are model scale, in inches.

Figure 29. Centerline HO Tank, T3

TANK T₄ WITH TANK VENTRAL FIN, F₁

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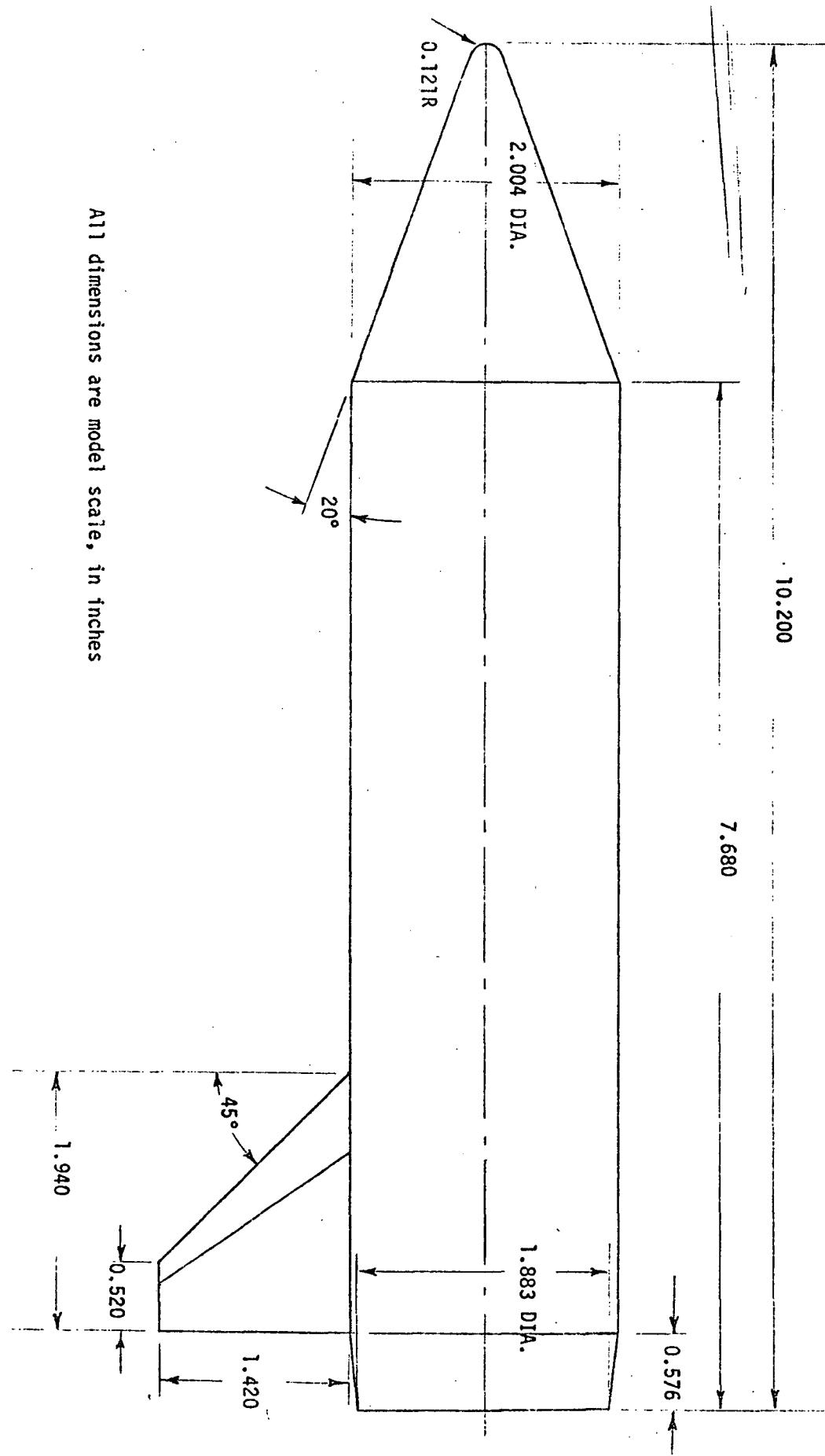
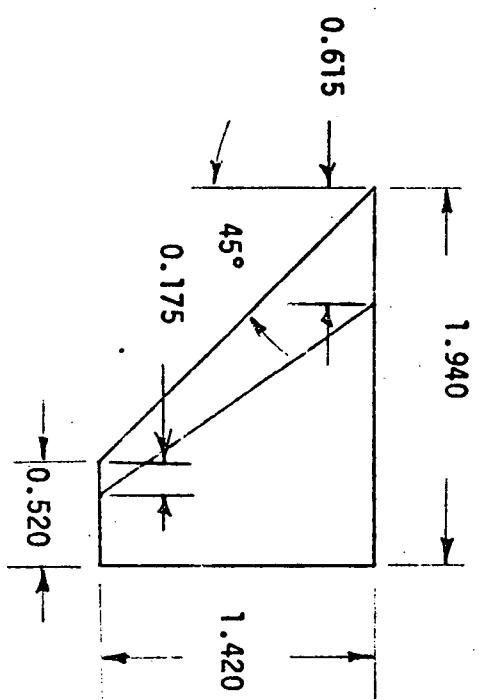


Figure 30. Centerline HO Tank T₄ With Tank Ventral Fin, F₁

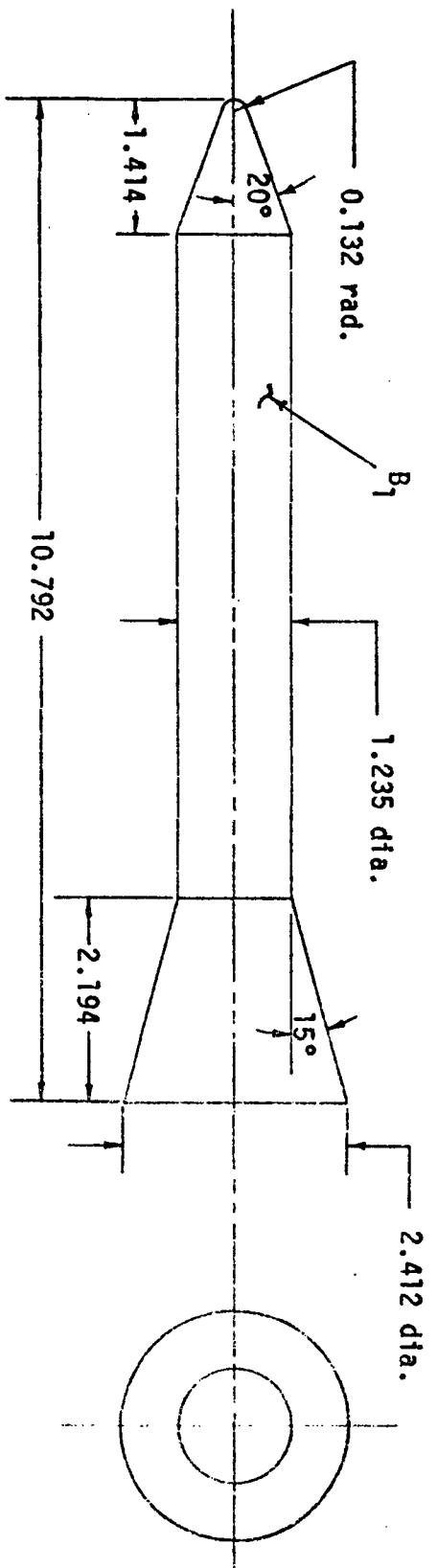
TANK VENTRAL FIN, F_1



All dimensions are model scale, in inches

Figure 31. Centerline Ventral Fin, F_1

BOOSTER, B_1 & B_5



All dimensions are model scale, in inches.

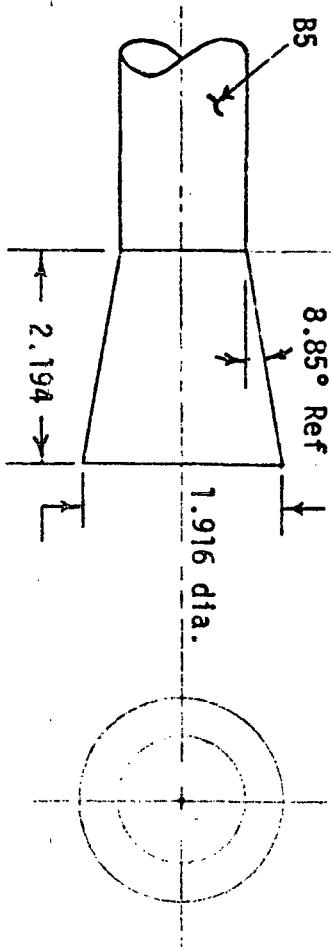
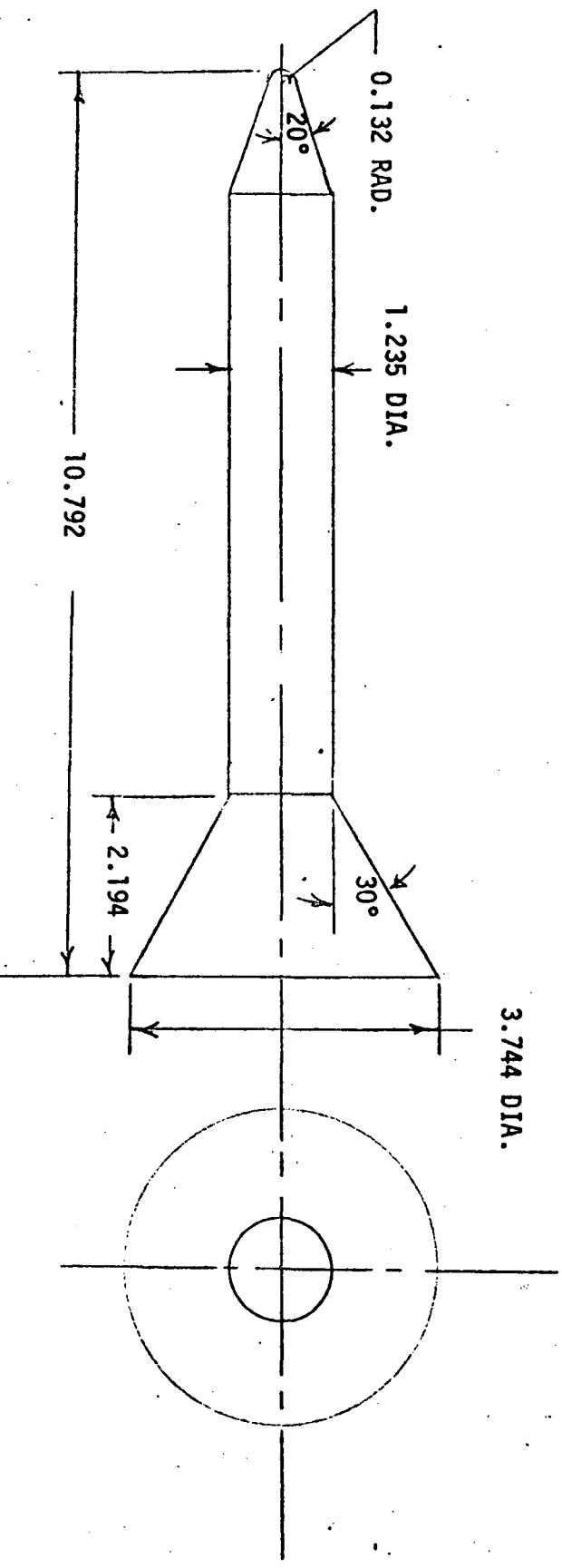


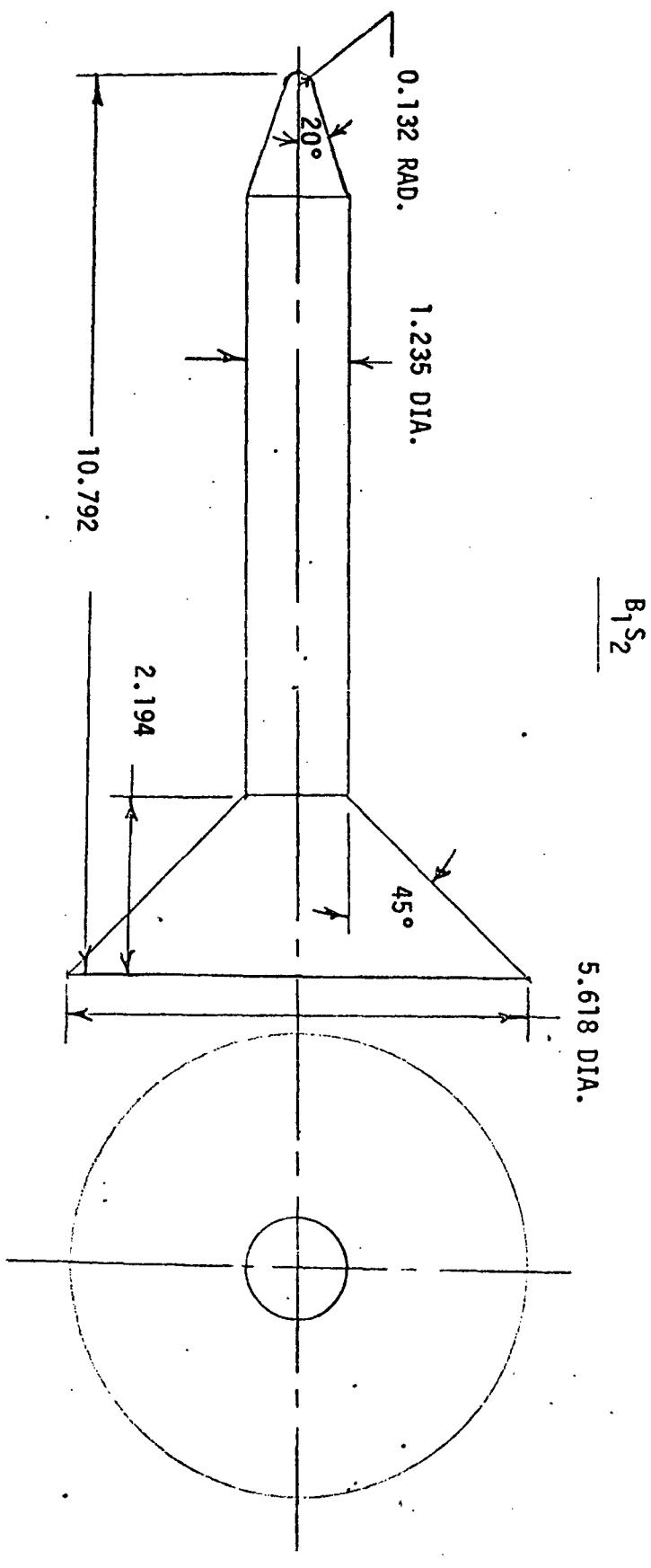
Figure 32. Boosters, B_1 and B_5

B₁S₁



All dimensions are model scale, in inches

Figure 33. Booster, B₁S₁



All dimensions are model scale, in inches

Figure 34. Booster, B₁S₂

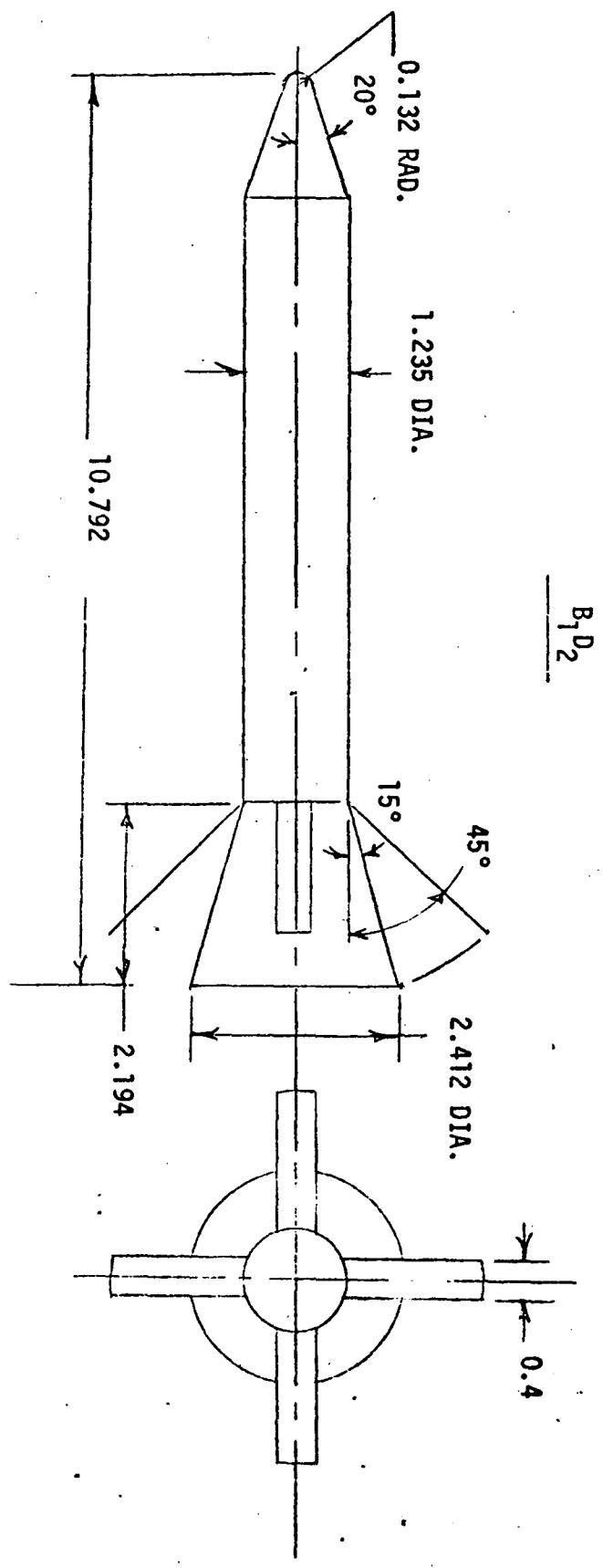
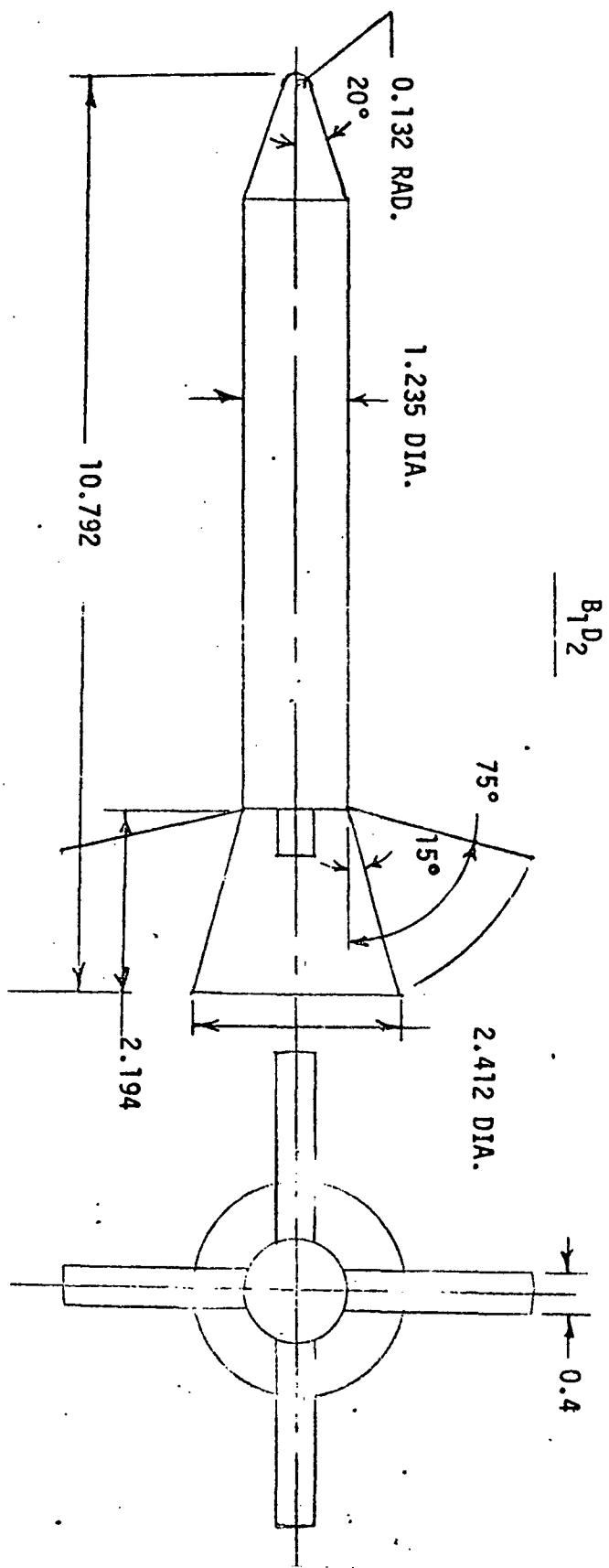


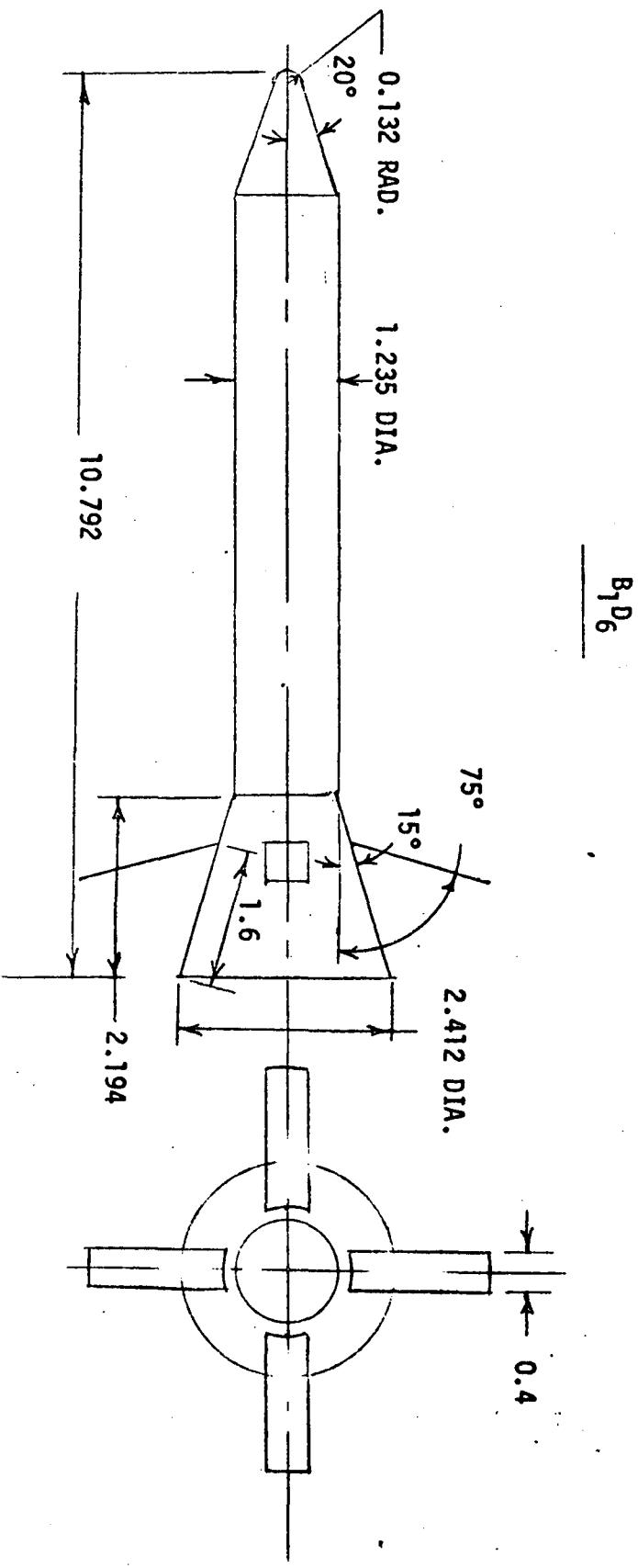
Figure 35. Booster, B₁D₂

All dimensions are model scale, in inches



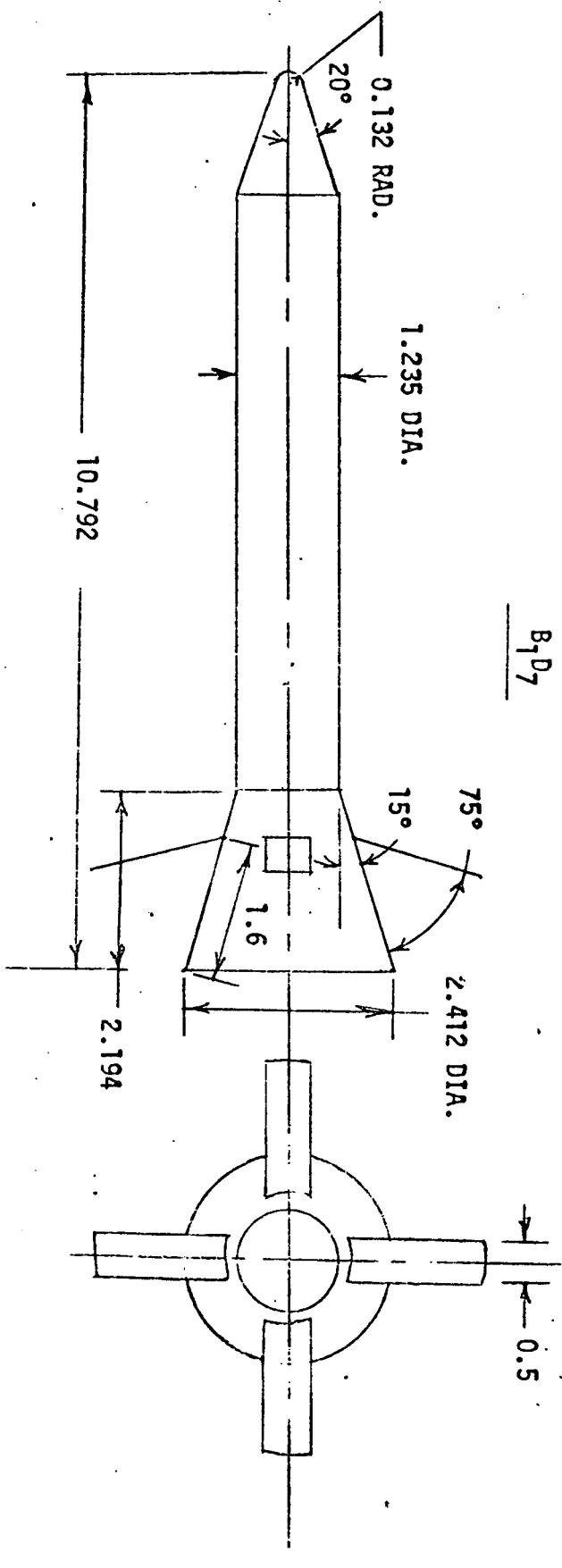
All dimensions are model scale, in inches

Figure 35. (continued)



All dimensions are model scale, in inches

Figure 36. Booster, B₁D₆



All dimensions are model scale, in inches

Figure 37. Booster, B1D7

BOOSTERS, B_2 & B_2S & B_6

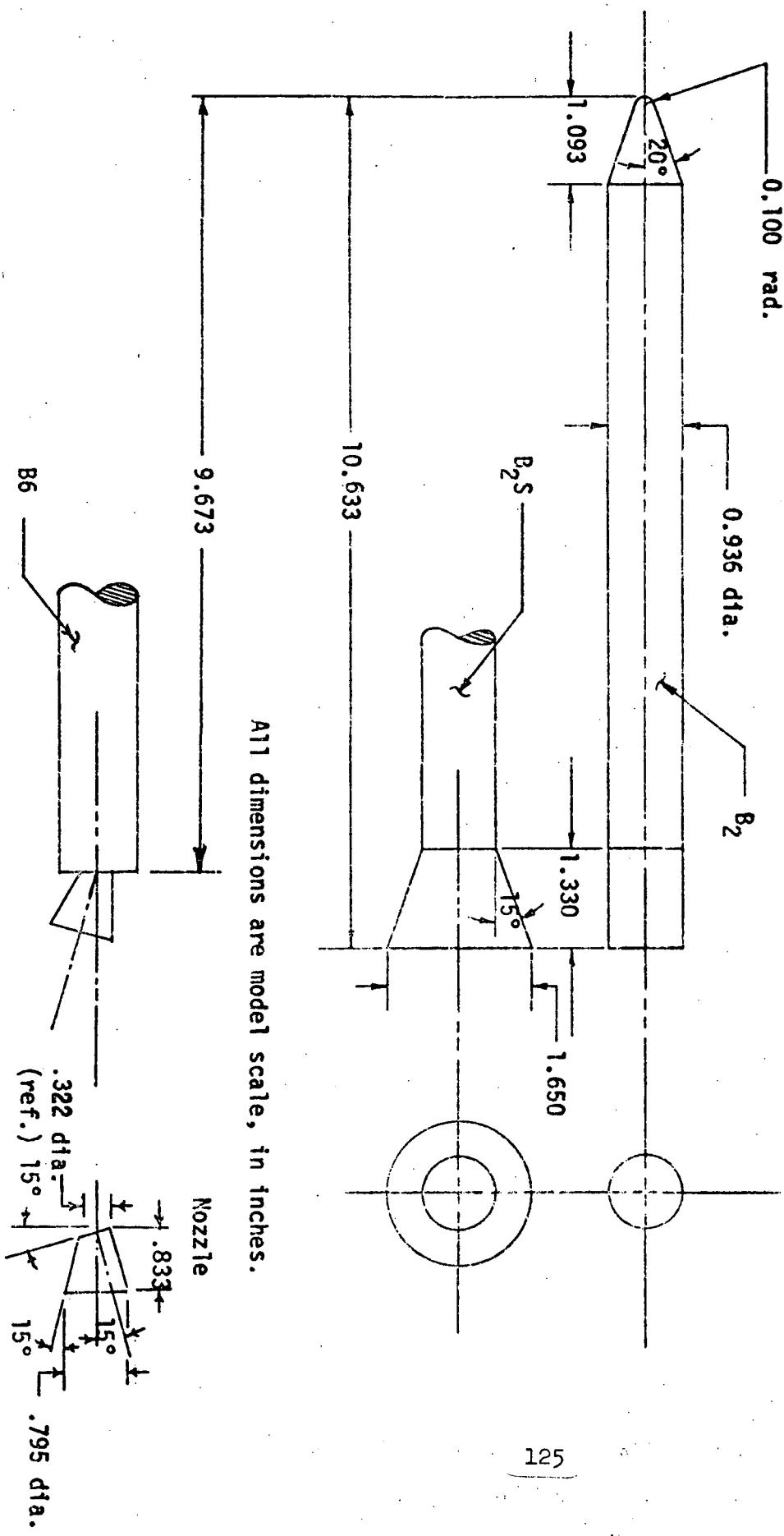
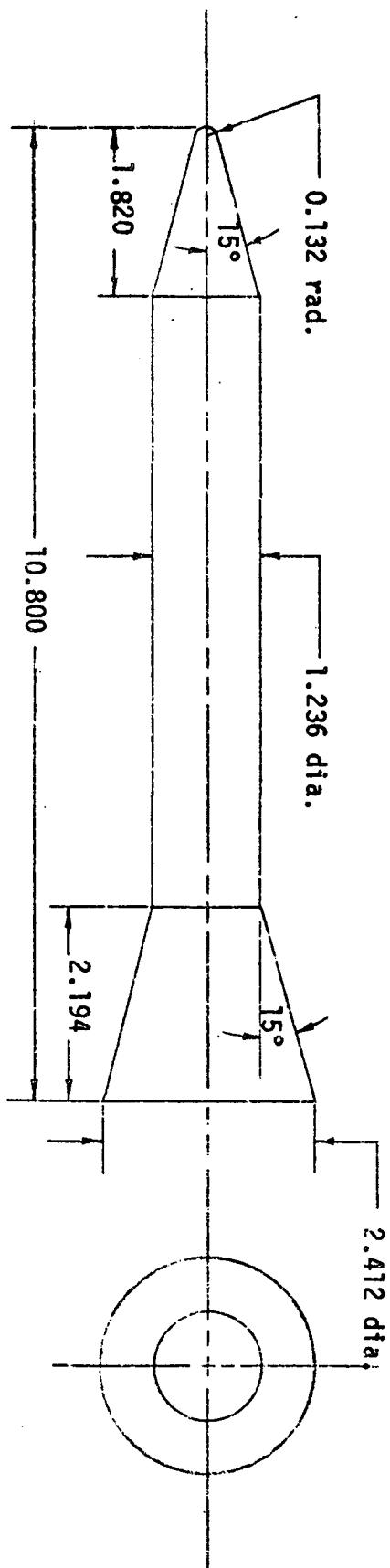


Figure 38. Boosters, B_2 , B_2S & B_6

BOOSTER, B₃



All dimensions are model scale, in inches.

Figure 39. Booster, B₃

BOOSTER, B₄

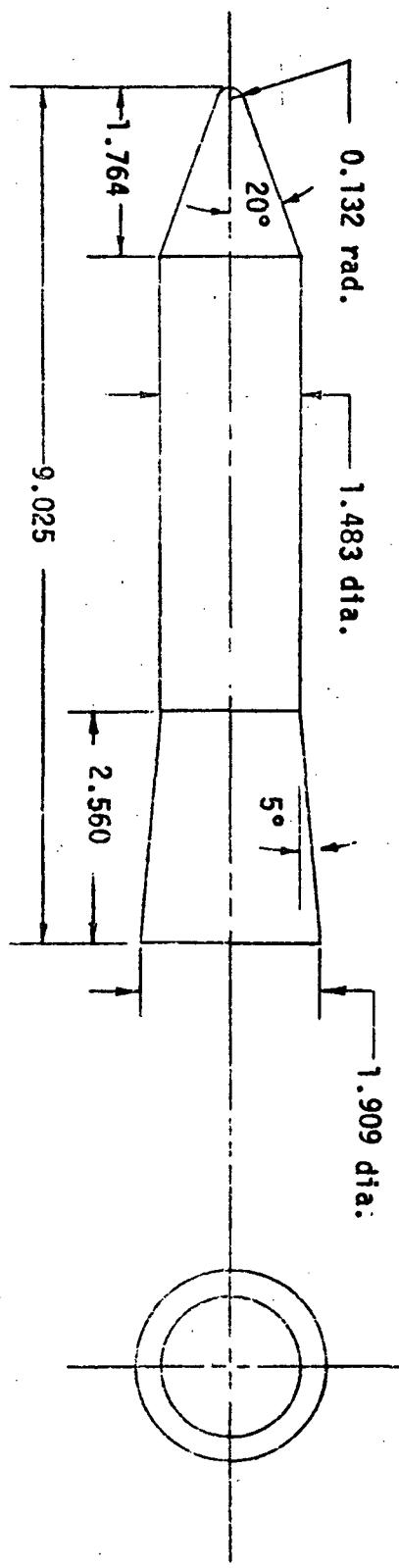


Figure 40. Booster, B₄

FIN, F₄
 (Shown mounted on Booster, B₄)

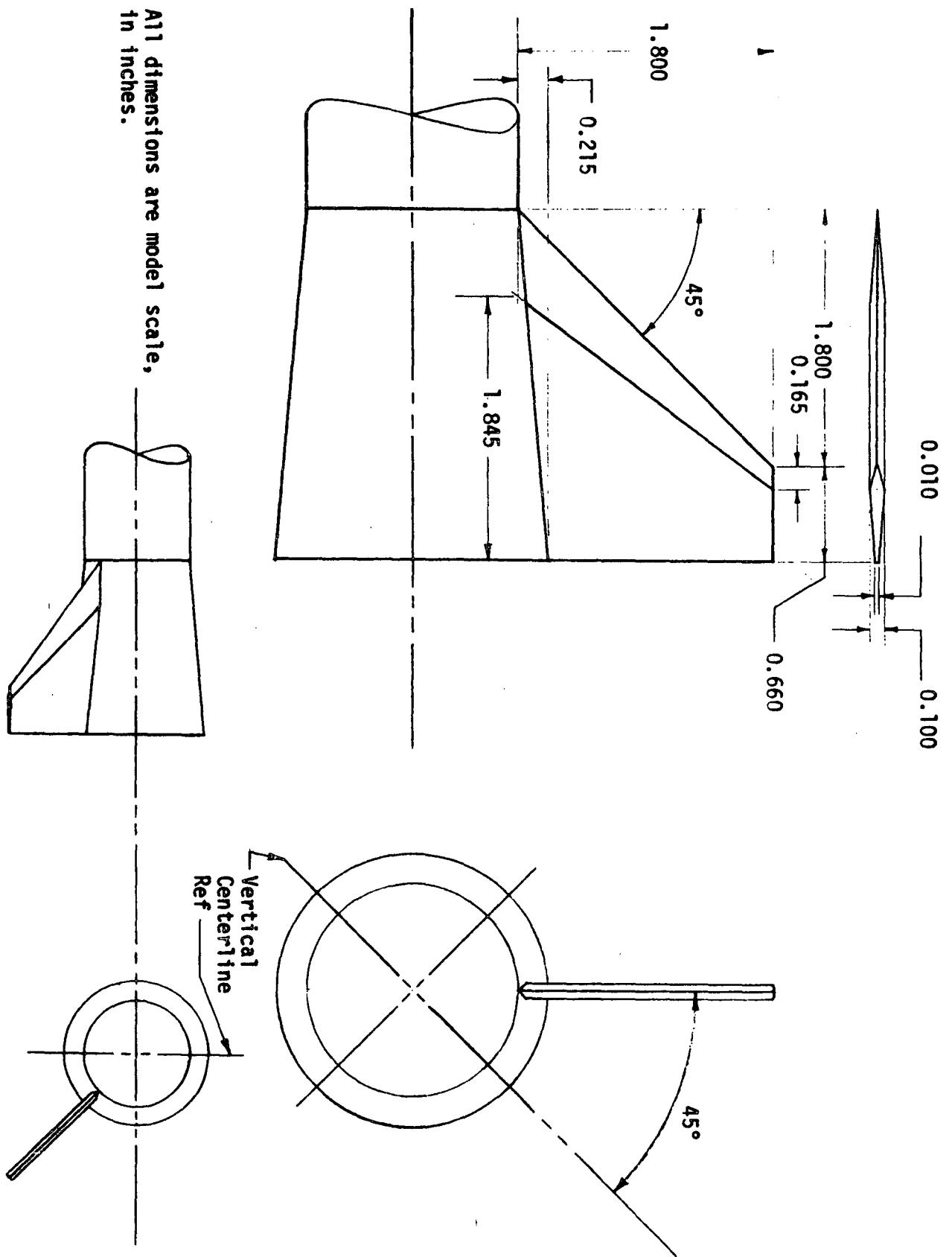
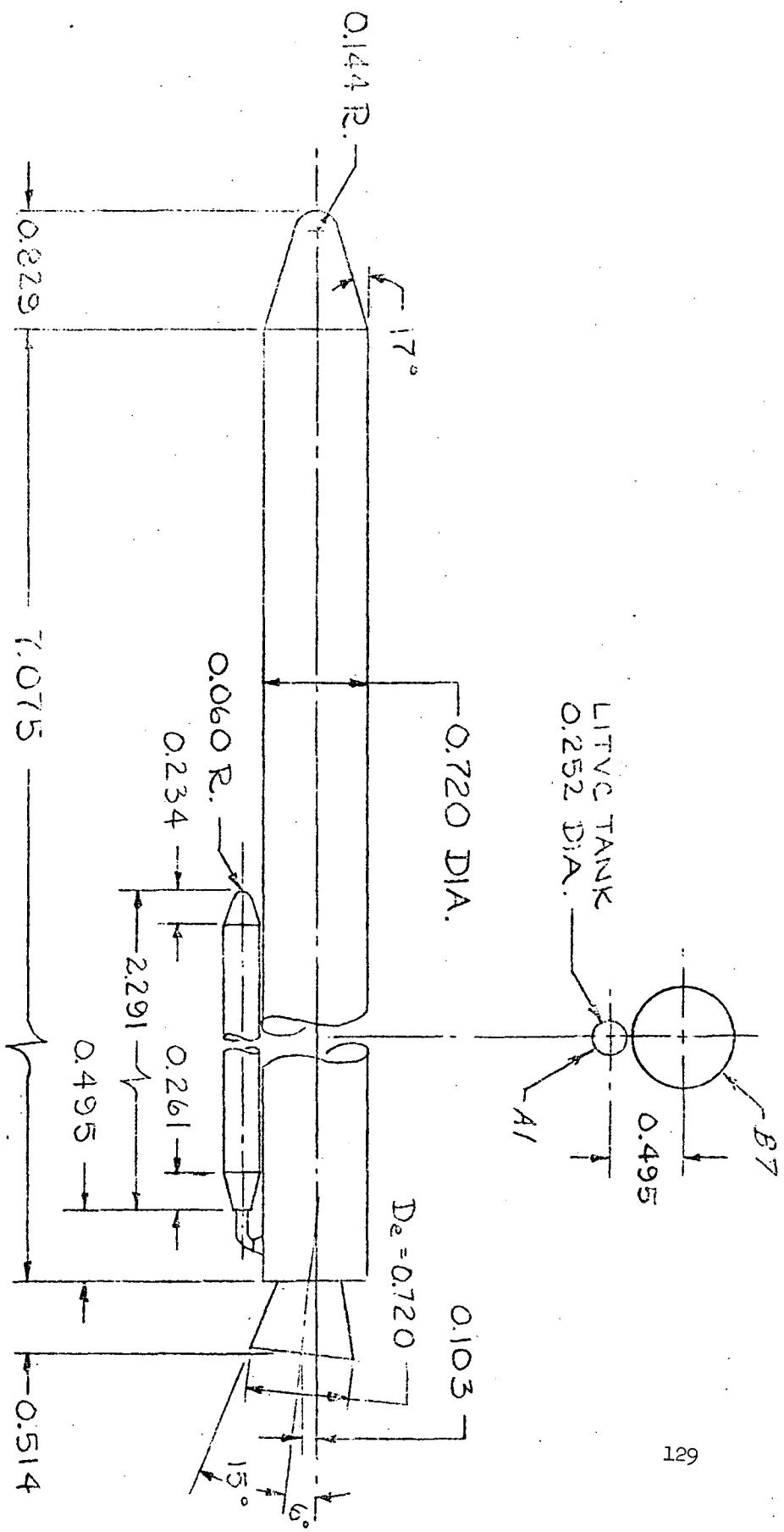


Figure 41. Booster Fin F₄ Mounted on Booster B₄



0.6% SCALE MODEL
 12.0 INCH; 7 SEGMENT SRM

SOURCE: FURIE HRM 012072
 DRAWINGS: WILSON

Figure 42. Booster, B7A1

FORM 25-3P
(P.V. 8-59)

PREPARED BY: _____
CHECKED BY: _____
DATE: _____
TITLE: _____

MCDONNELL DOUGLAS ASTRONAUTICS COMPANY

PAGE: _____

DIVISION

MODEL: _____

REPORT NO.: _____

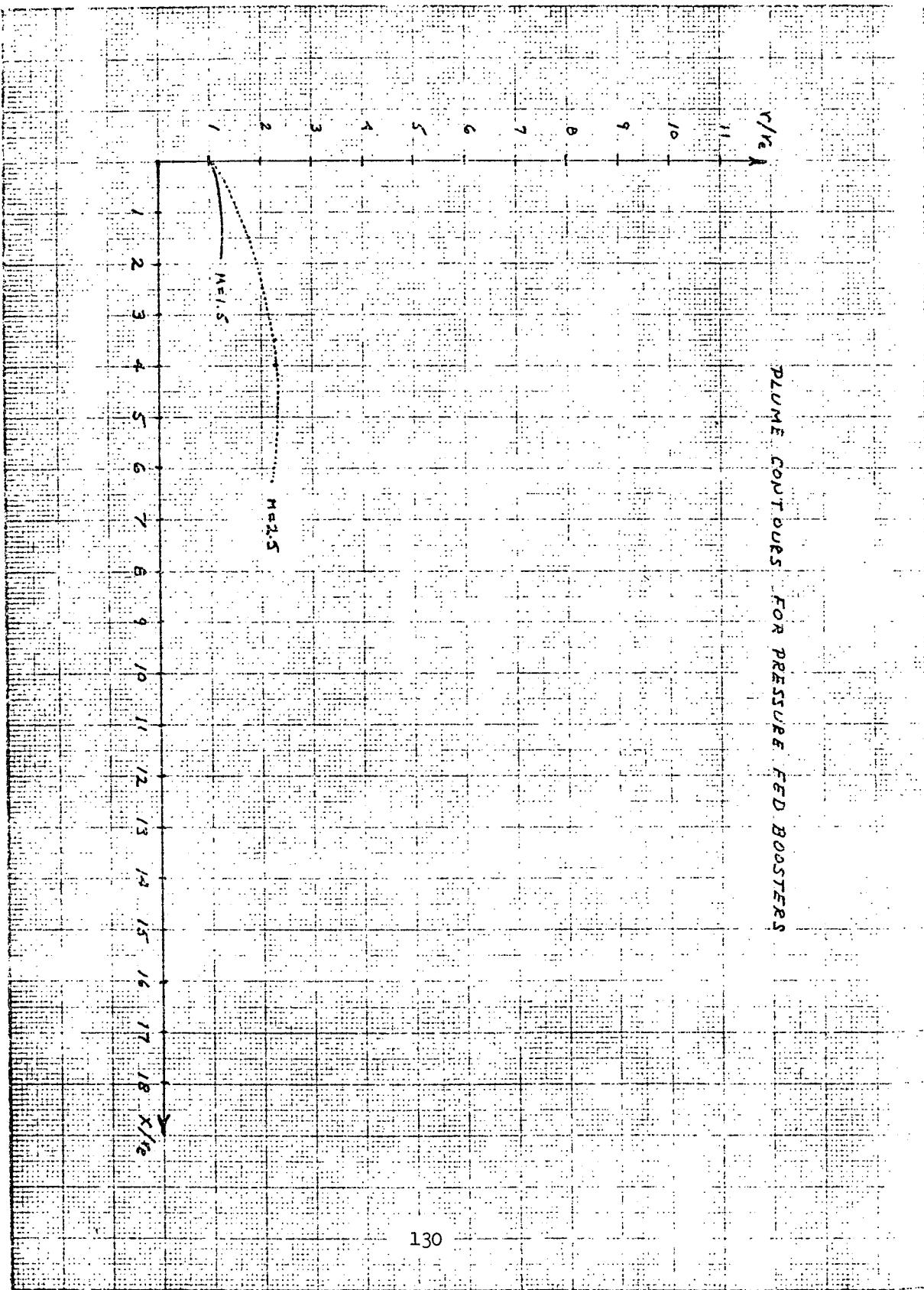


Figure 43. Plume Contours for Pressure Fed Boosters

MCDONNELL DOUGLAS ASTRONAUTICS COMPANY

FORM 25-BP
(Rev. 9-59)

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CHECKED BY: _____
DATE: _____
TITLE: _____

DIVISION

PAGE: _____
MODEL: _____
REPORT NO.: _____

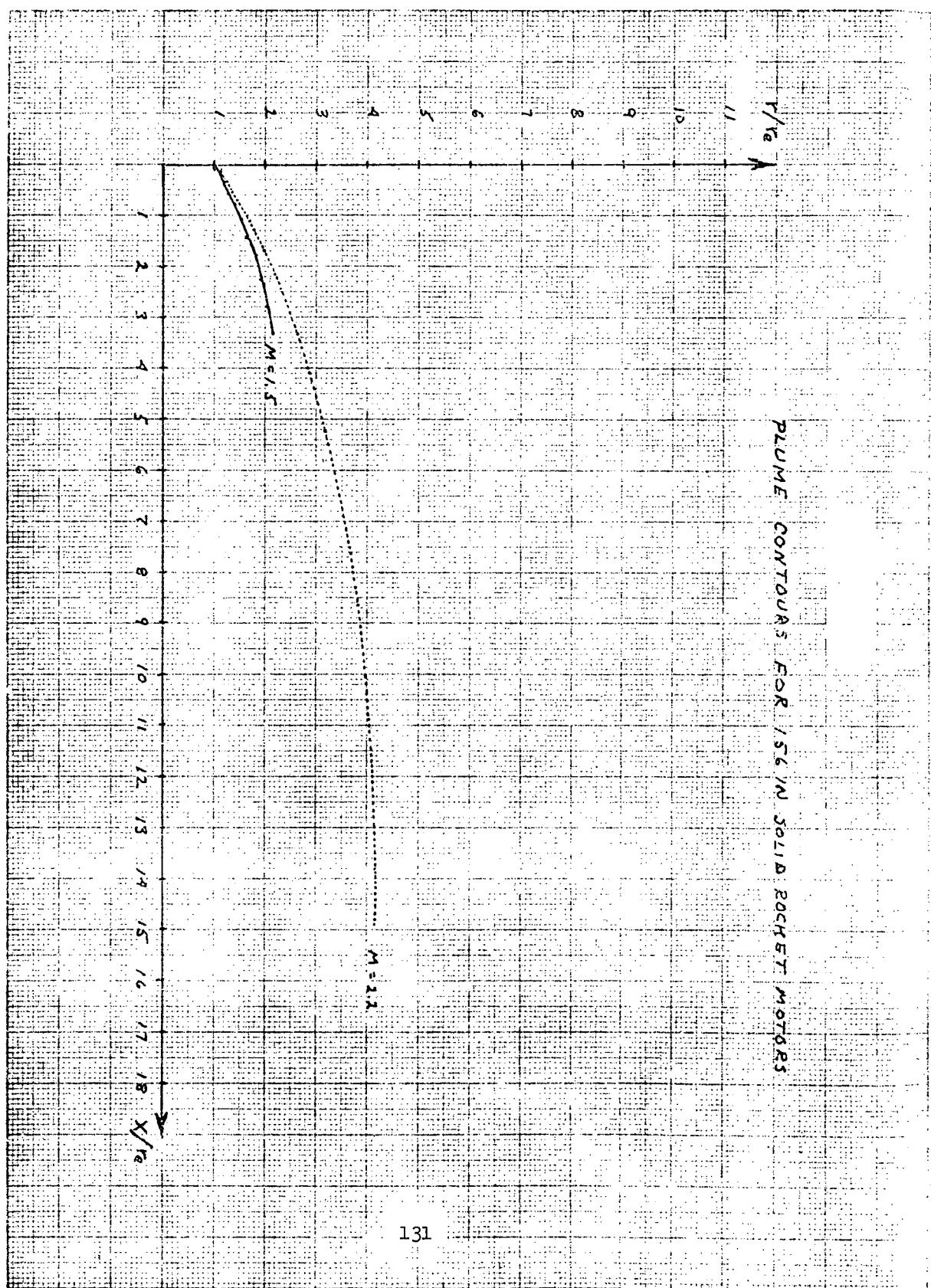


Figure 44. Plume Contours for 156 Inch Solid Rocket Motors

MCDONNELL DOUGLAS ASTRONAUTICS COMPANY

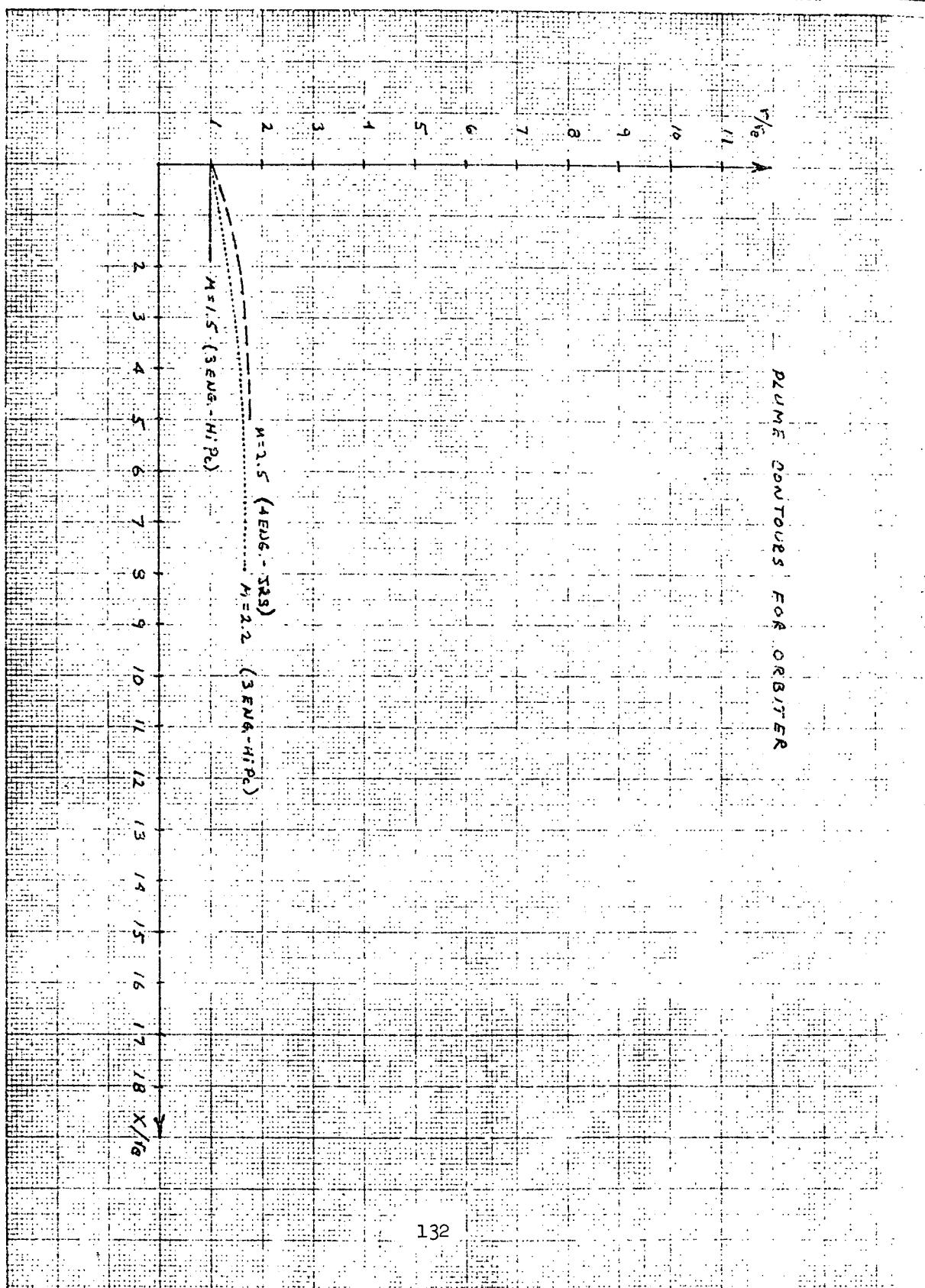
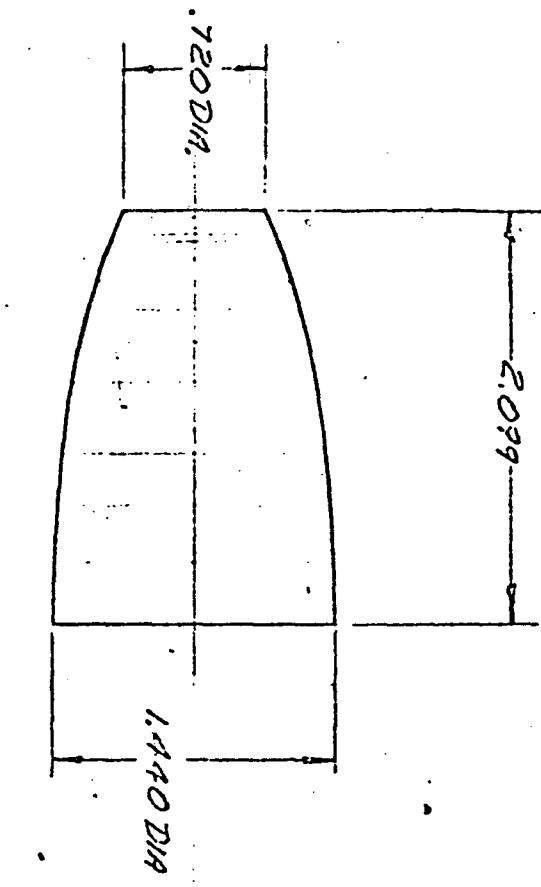
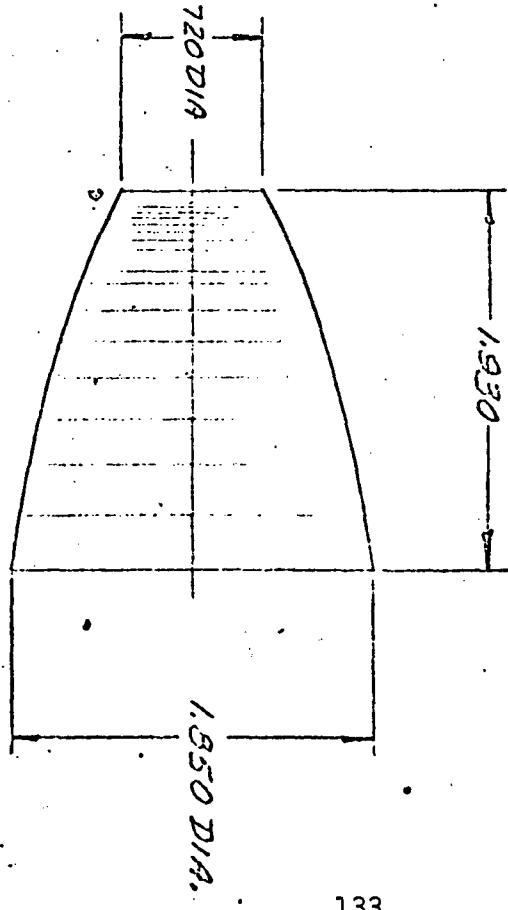
PREPARED BY: _____
CHECKED BY: _____
DATE: _____
TITLE: _____DIVISION: _____
MODEL: _____
REPORT NO.: _____

Figure 45. Plume Contour For Orbiter



M1.5 PLUME - B₇ BOOSTER



M2.2 PLUME - B₇ BOOSTER

Figure 46. Sketch of Plume for Booster B₇

MODEL SUPPORT SYSTEM DETAIL

Configuration shown
provides independent
support for boosters
tank and orbiter.

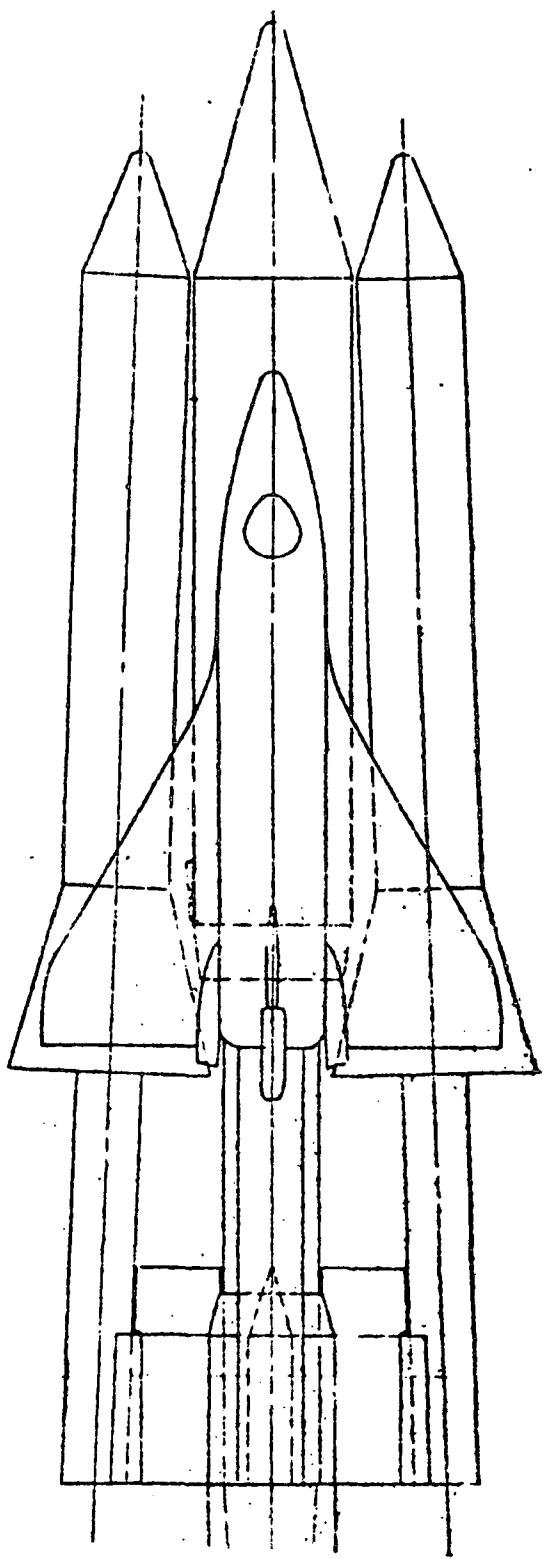
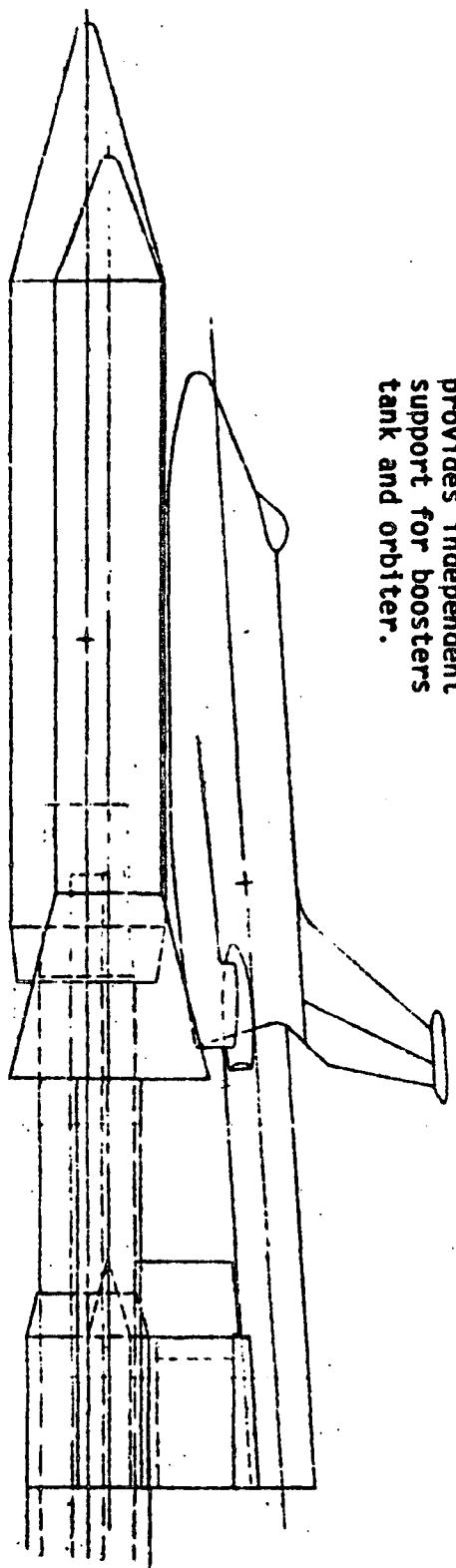


Figure 47. Tunnel Installation for the OBT Configuration-Pitch Series
(Orbiter, Tank and Booster Independently Supported)

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
PITCH SERIES

Boosters and Orbiter fixed to centerline tank.

3484 POD

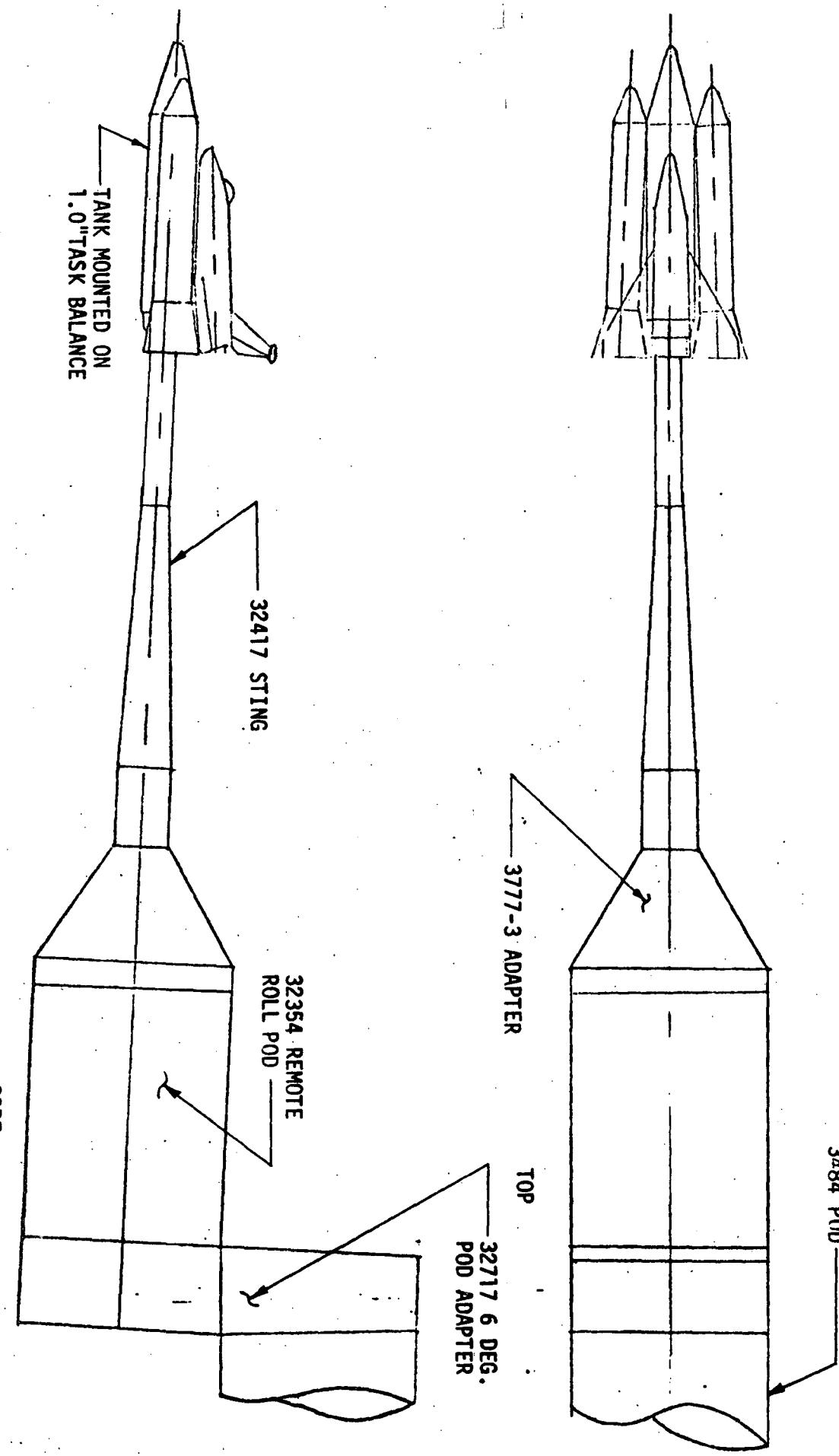
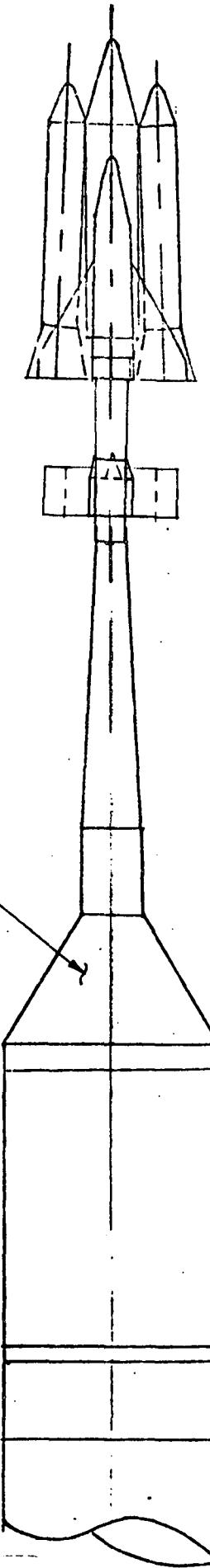


Figure 48. Tunnel Installation for the OBT Configuration-Pitch Series
(Booster and Orbiter Fixed to Centerline Tank)

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
PITCH SERIES

Boosters fixed to centerline tank.

3484 POD



TOP

32717 6 DEG.
POD ADAPTER

136

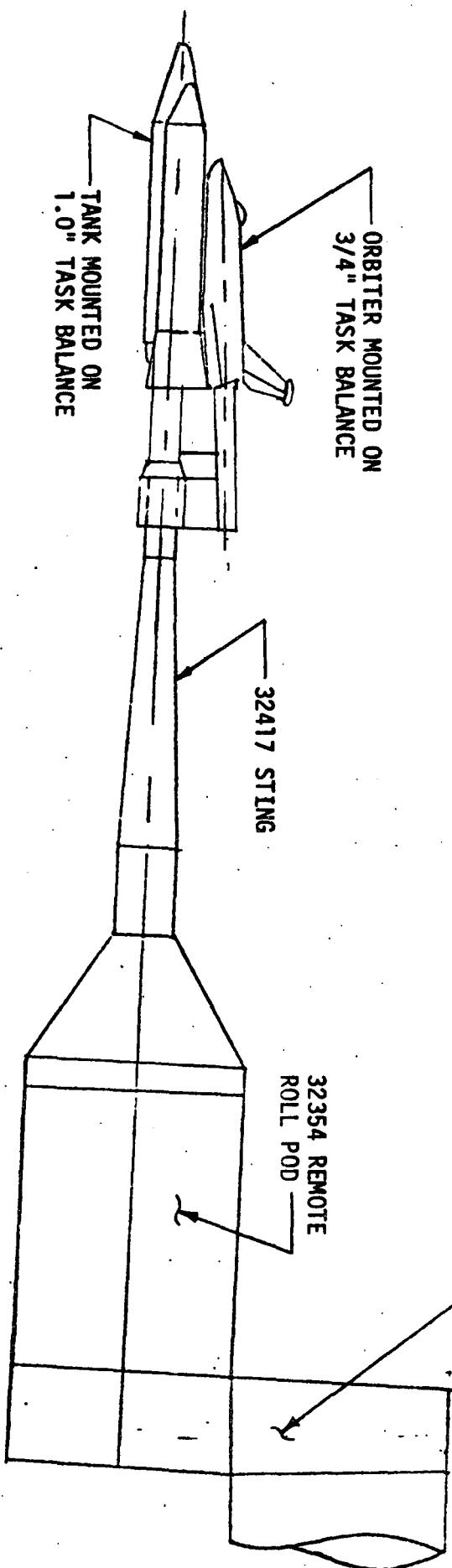


Figure 49. Tunnel Installation for the OBT Configuration (Booster Fixed to Centerline Tank)

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
PITCH SERIES

Right Booster fixed to centerline
tank, left Booster Independently
supported.

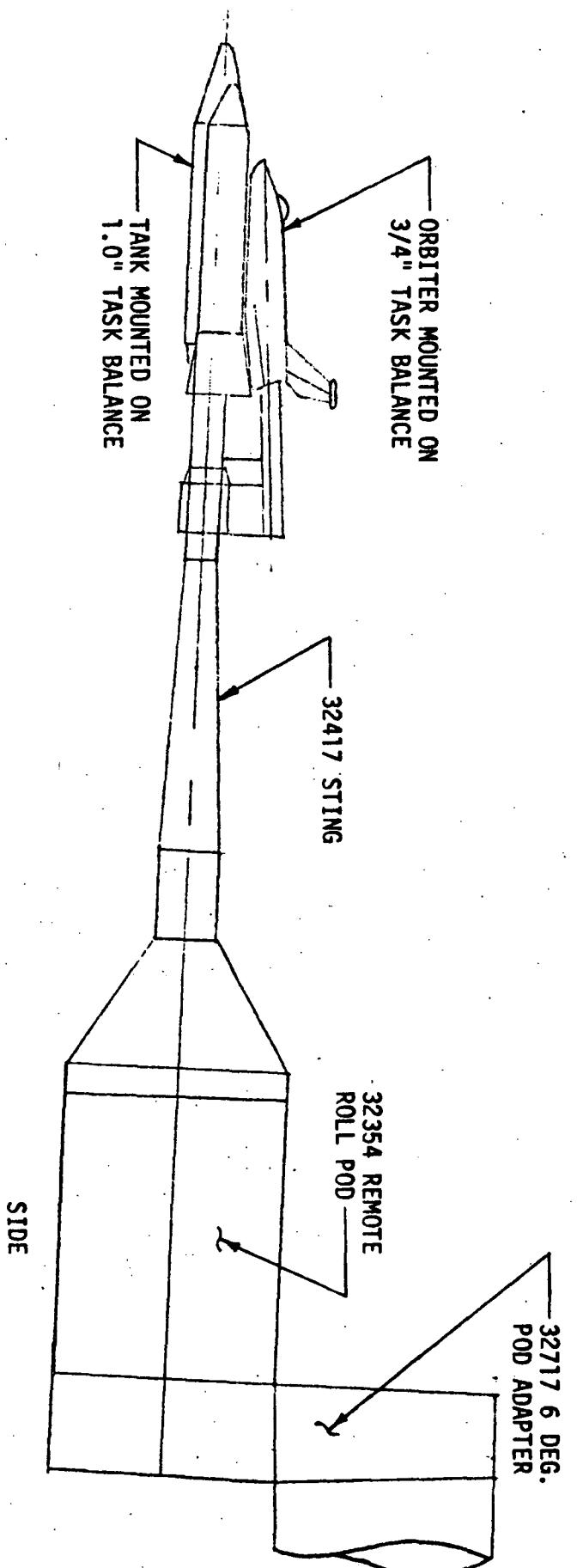
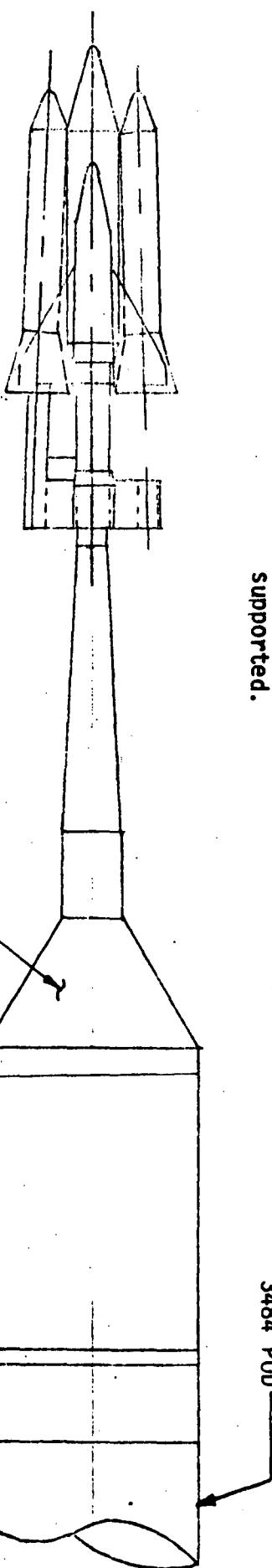


Figure 50. Tunnel Installation for the OBT Configuration-Pitch Series (Right Booster Fixed to Centerline Tank, Left Booster Independently Supported)

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
PITCH SERIES

Left and Right boosters independently supported with centerline tank, Ti in forward position.

3484 POD

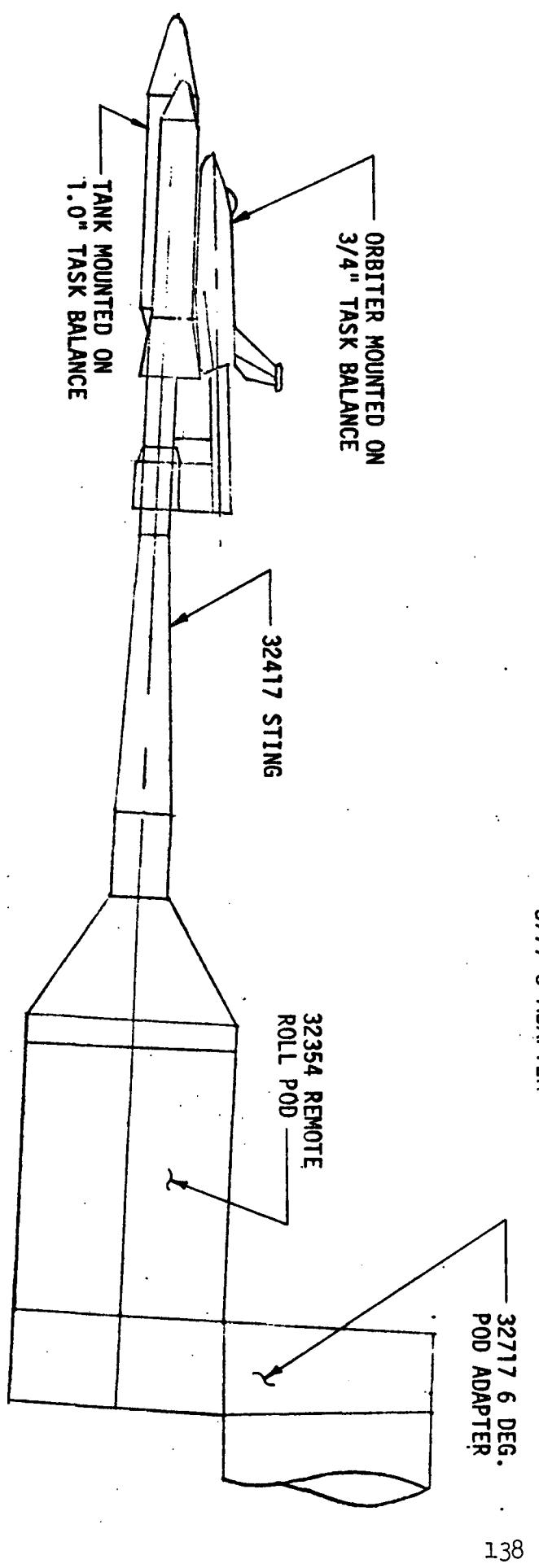
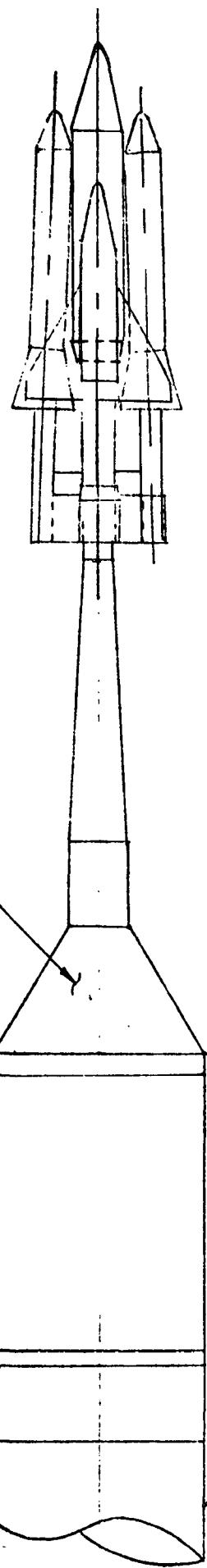


Figure 51. Tunnel Installation for the OBT Configuration-Pitch Series (Left and Right Booster Independently Supported)

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
PITCH-SERIES

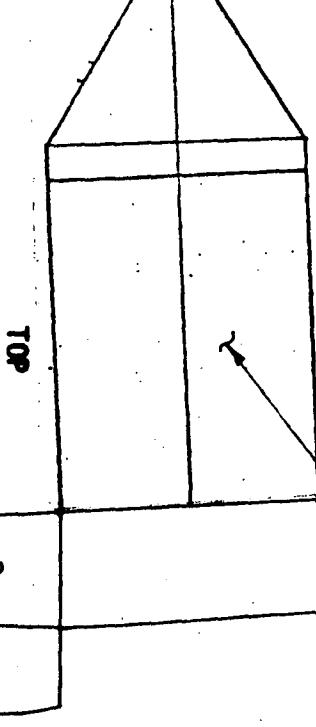
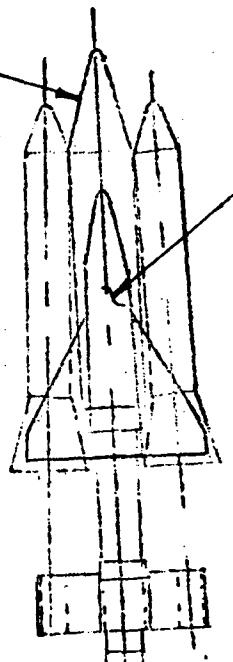
6° Sideslip Angle

Boosters fixed to centerline tank

Orbiter mounted on
 $3/4"$ task balance

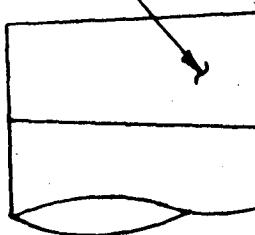
32417 STING

32354 REMOTE
ROLL POD



Tank mounted on
1.0" task balance

32717 6 DEG.
POD ADAPTER



3484 POD

SIDE

3777-3 ADAPTER

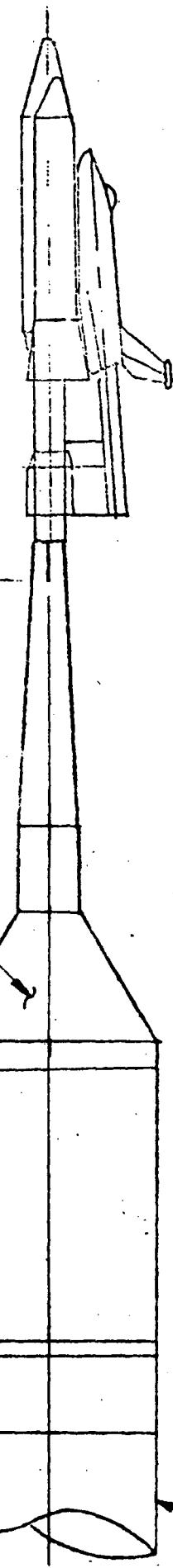


Figure 52.

Tunnel Installation for the OBT Configuration With 6° Sideslip
Angle-Pitch Series (Boosters Fixed to Centerline Tank)

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
YAW SERIES

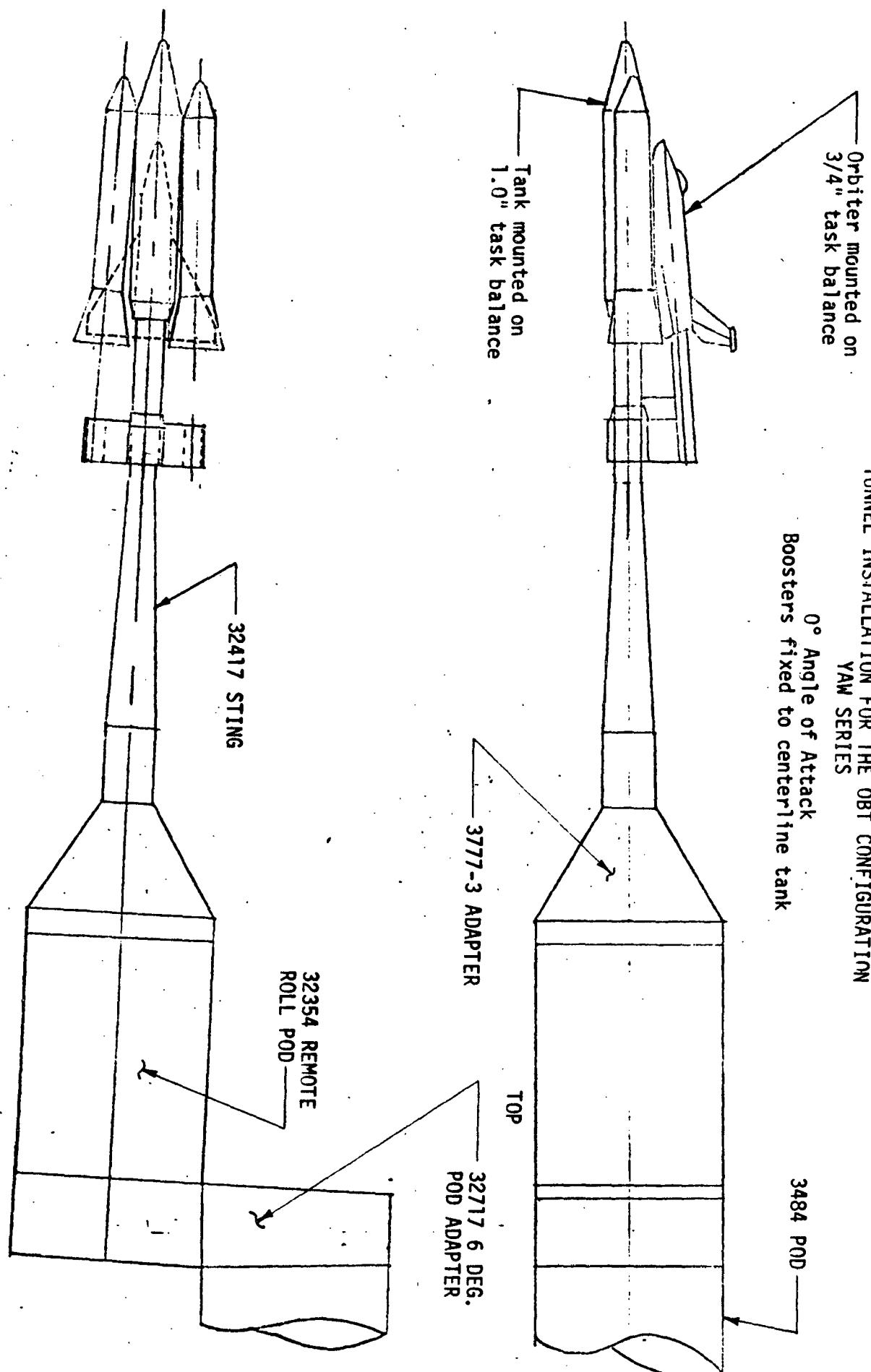


Figure 53. Tunnel Installation for the OBT Configuration With 0° Angle of Attack-Yaw Series (Boosters Fixed to Centerline Tank)

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
YAW SERIES

6° Angle of Attack
Boosters fixed to centerline tank

Orbiter mounted on
3/4" task balance

32417 STING

32354 REMOTE
ROLL POD

32717 6 DEG.
POD ADAPTER

TOP

141

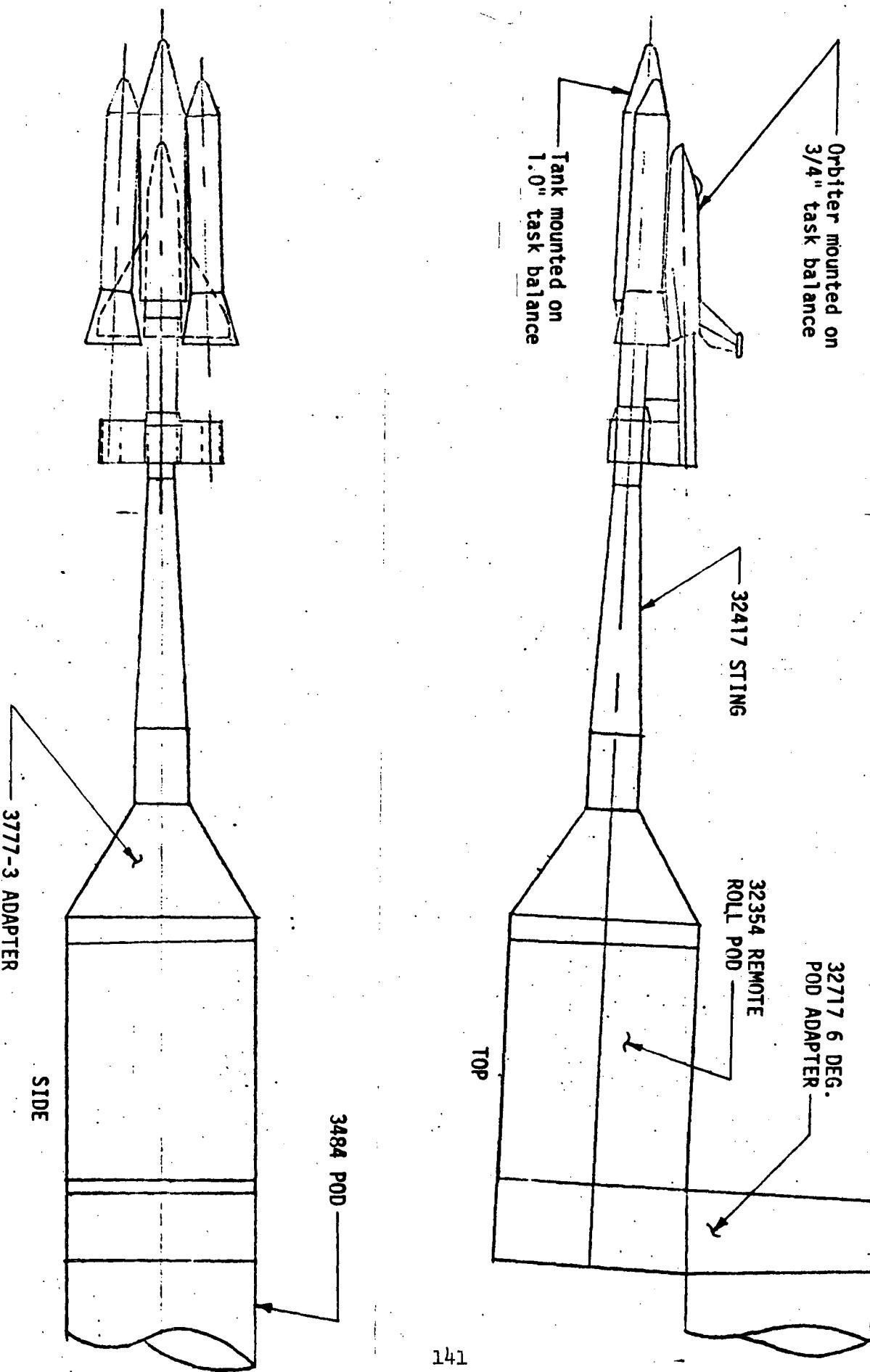


Figure 54. Tunnel Installation for the OBT Configuration With 6° Angle of Attack, Yaw Series (Boosters Fixed to the Centerline Tank)

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
PITCH SERIES

Orbiter alone

3484 POD

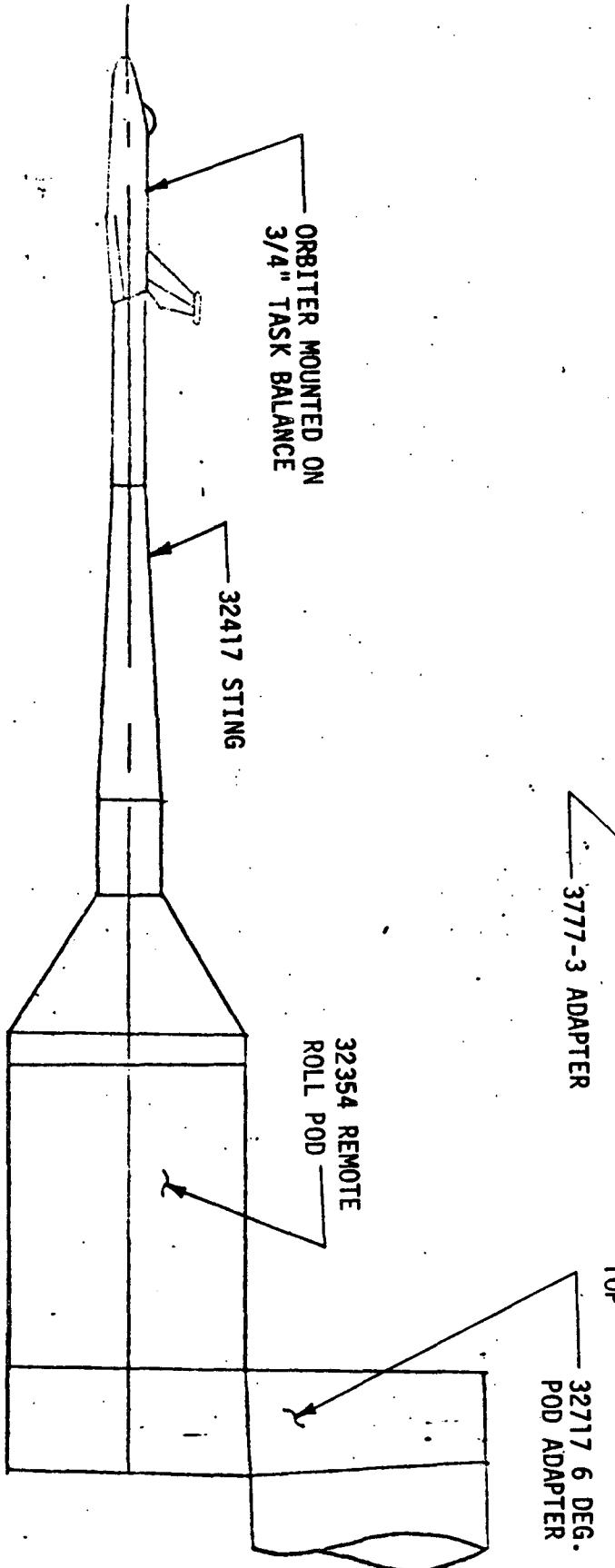
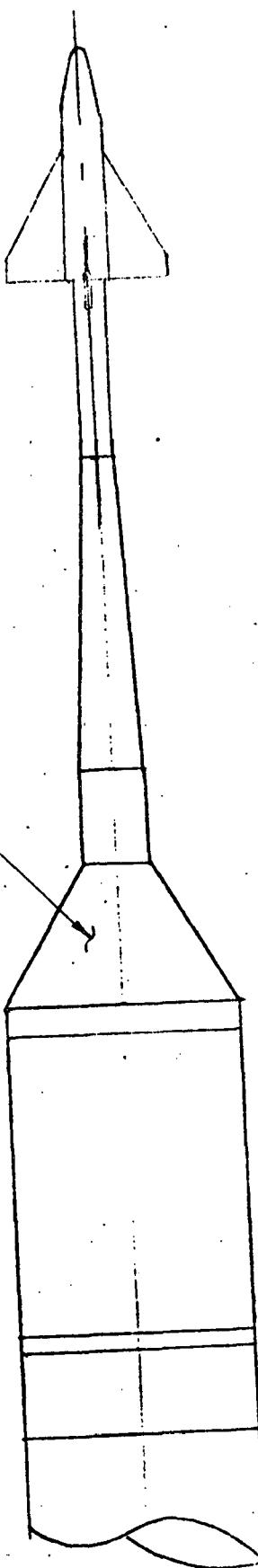
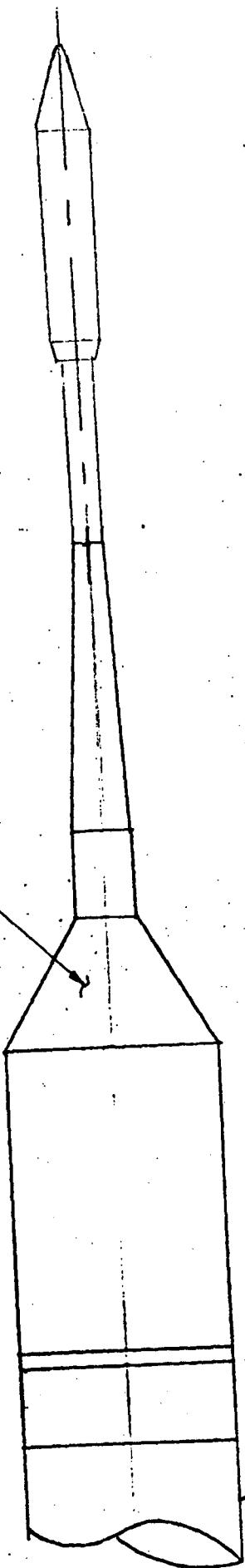


Figure 55. Tunnel Installation for the Orbiter Alone Configuration

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
PITCH SERIES

Centerline tank alone.

3484 POD

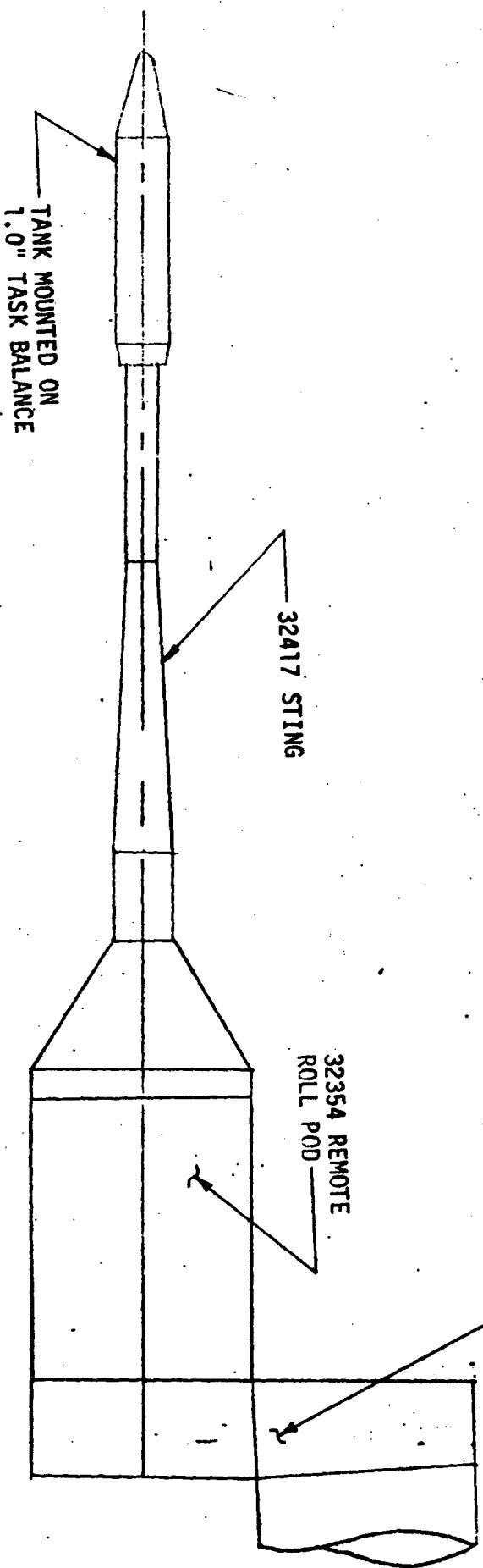


TOP

32717 6 DEG.
POD ADAPTER

32354 REMOTE
ROLL POD

32417 STING



SIDE

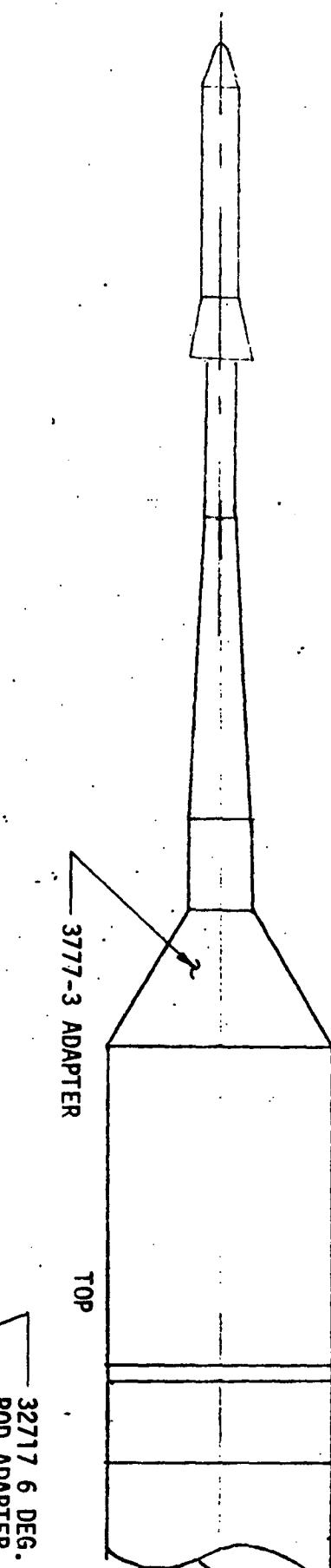
TANK MOUNTED ON
1.0" TASK BALANCE

Figure 56. Tunnel Installation for the Tank Alone Configuration

TUNNEL INSTALLATION FOR THE OBT CONFIGURATION
PITCH SERIES

Booster alone

3484 POD



144

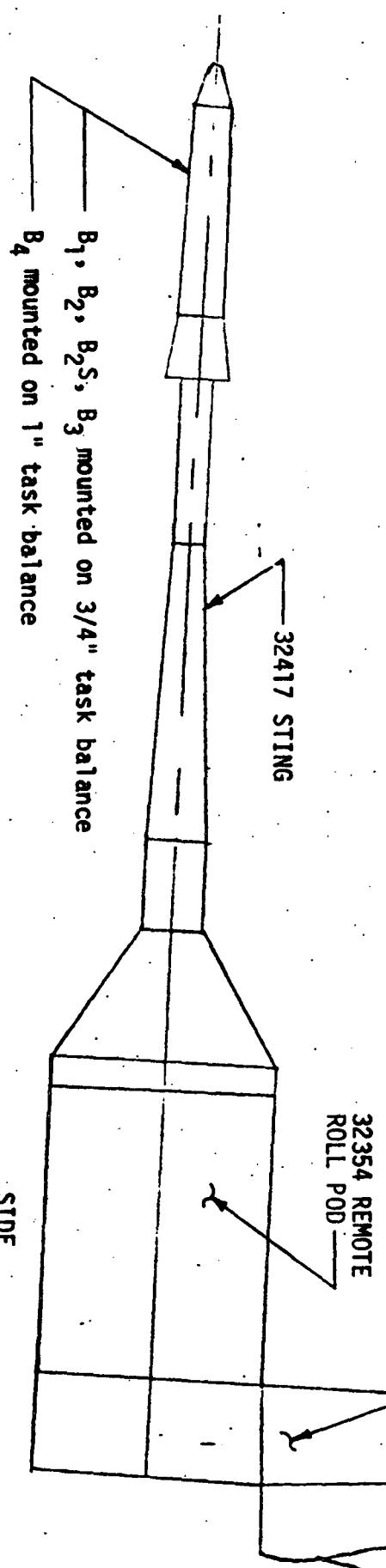
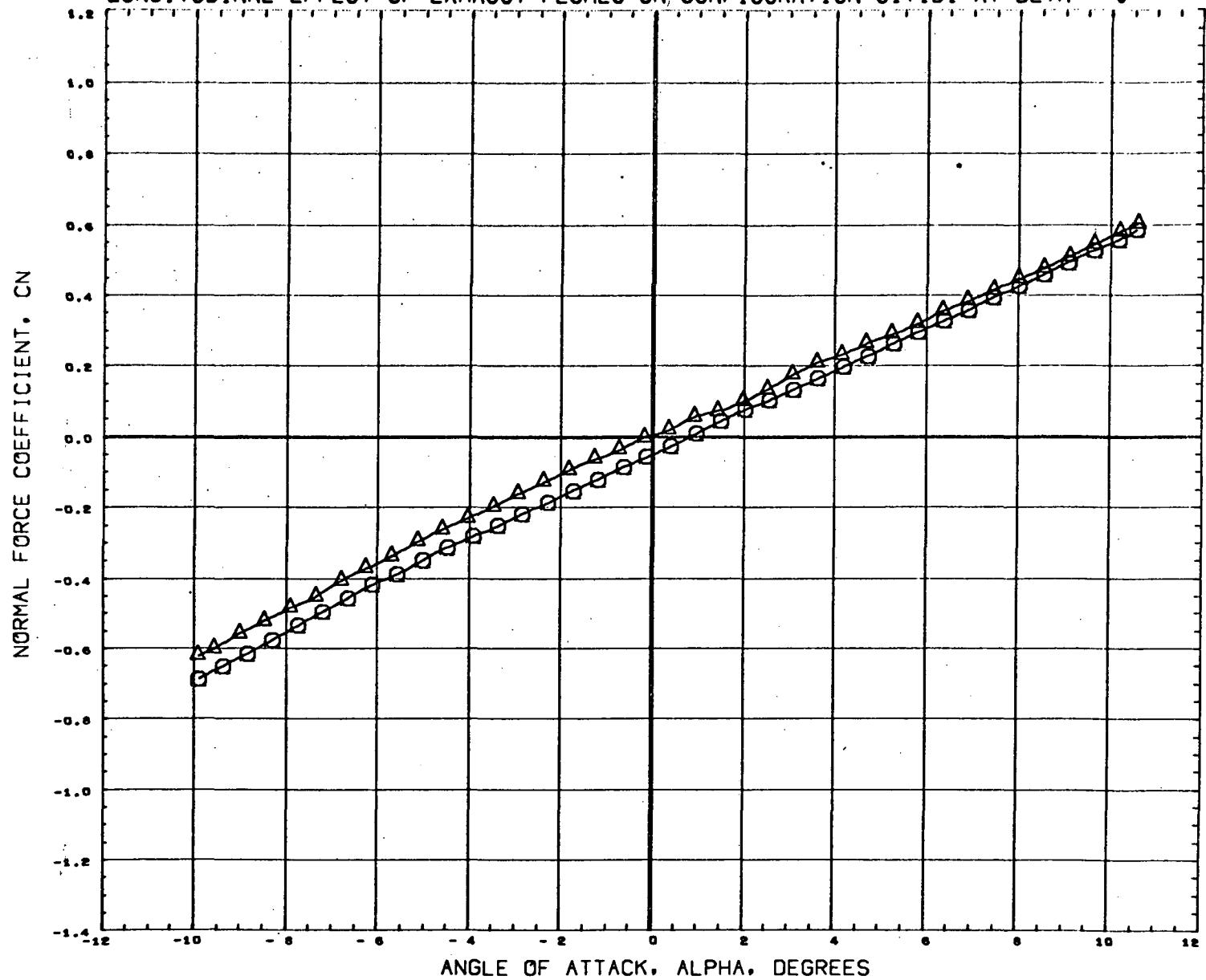


Figure 57. Tunnel Installation for the Booster Alone Configuration

DATA FIGURES

Tabulations of the plotted data and corresponding source data are available from SADSAC Operations.

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 0

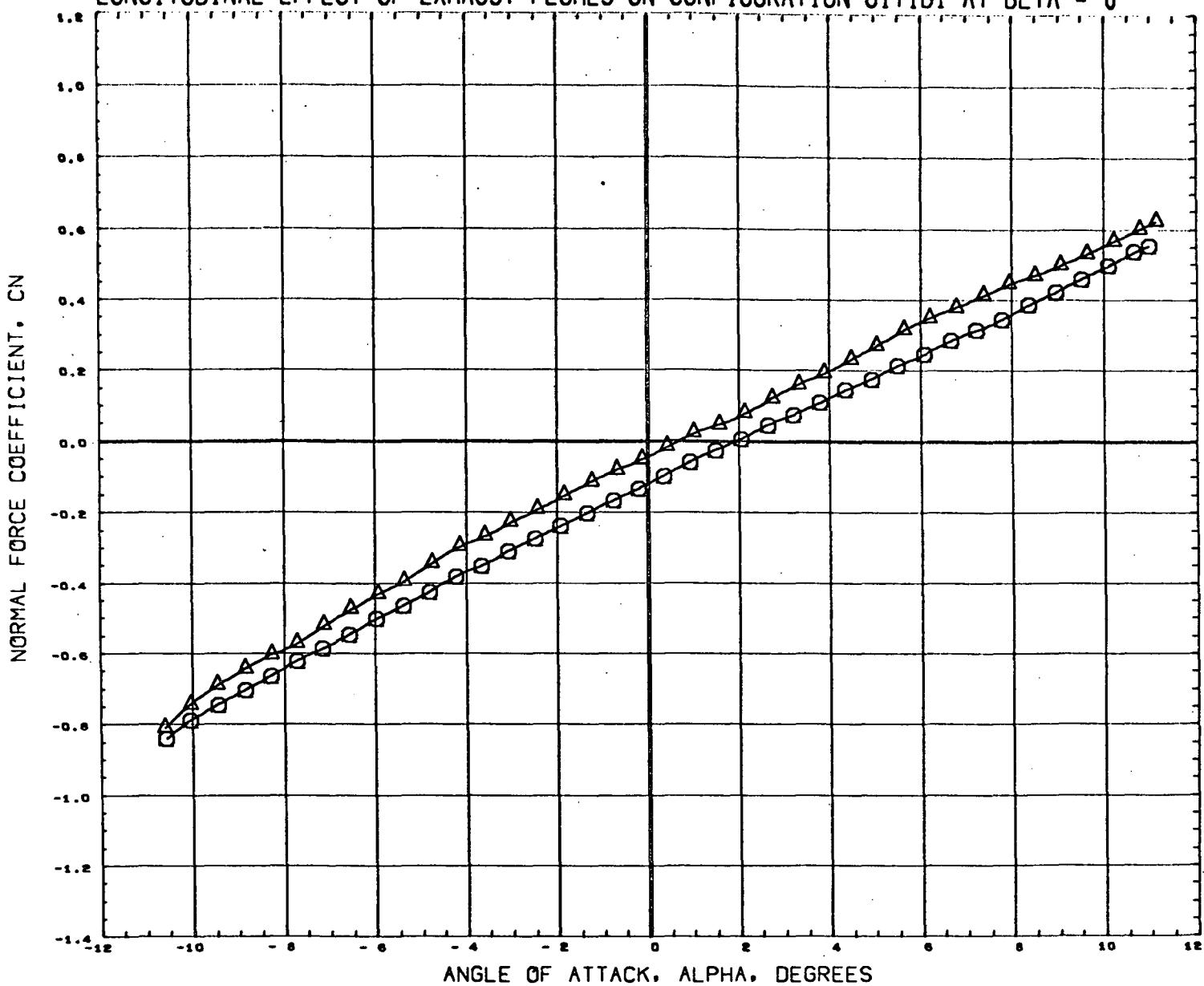


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(CD7507)	MDAC S-222 COMPOSITE (T-CG) 01T1B1+PLUME (2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 582.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

PAGE 1

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 0



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(CDT507)	MDAC S-222 COMPOSITE (T-CG) 01T1B1+PLUME (2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

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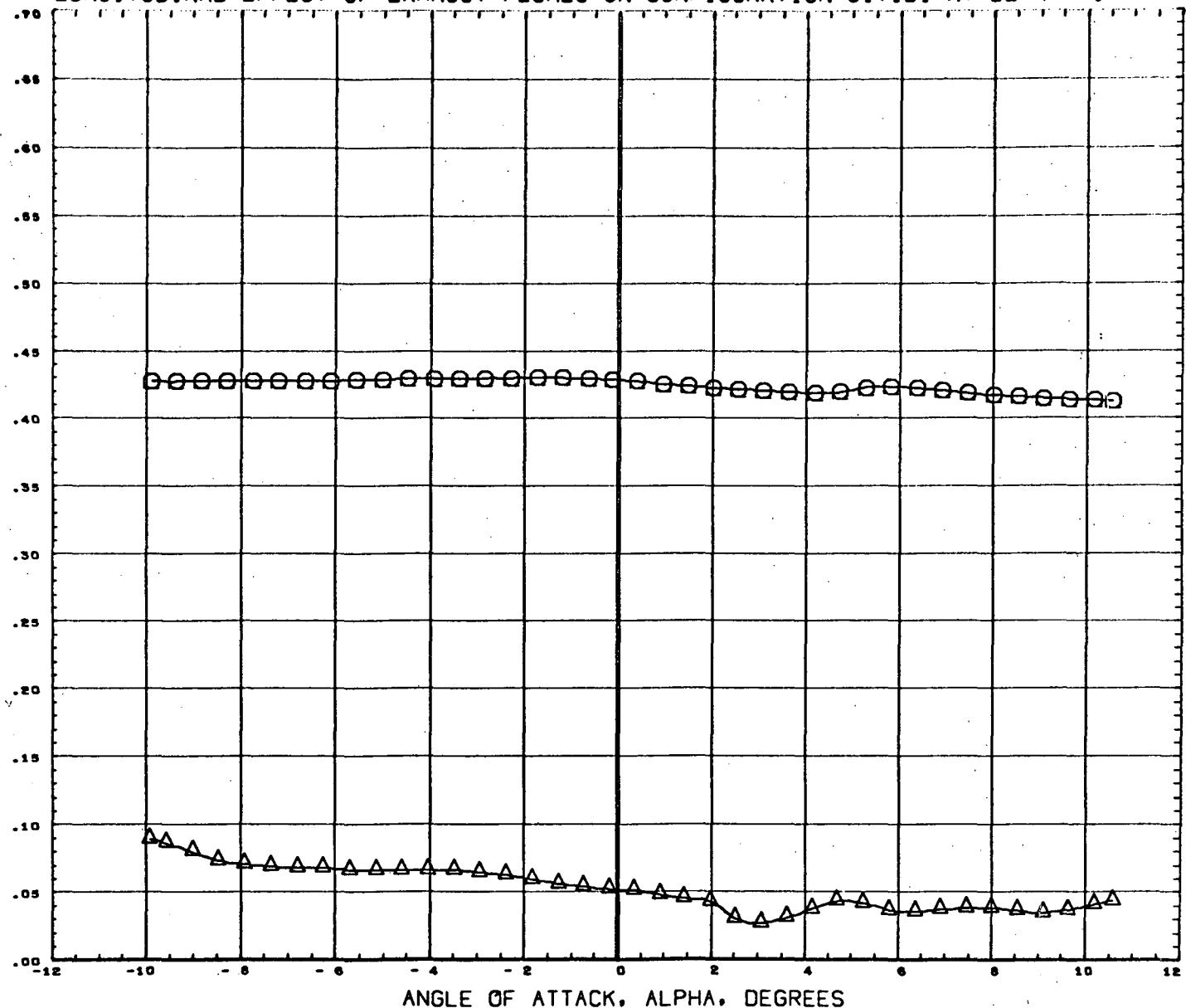
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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0

AXIAL FORCE COEFFICIENT, CA



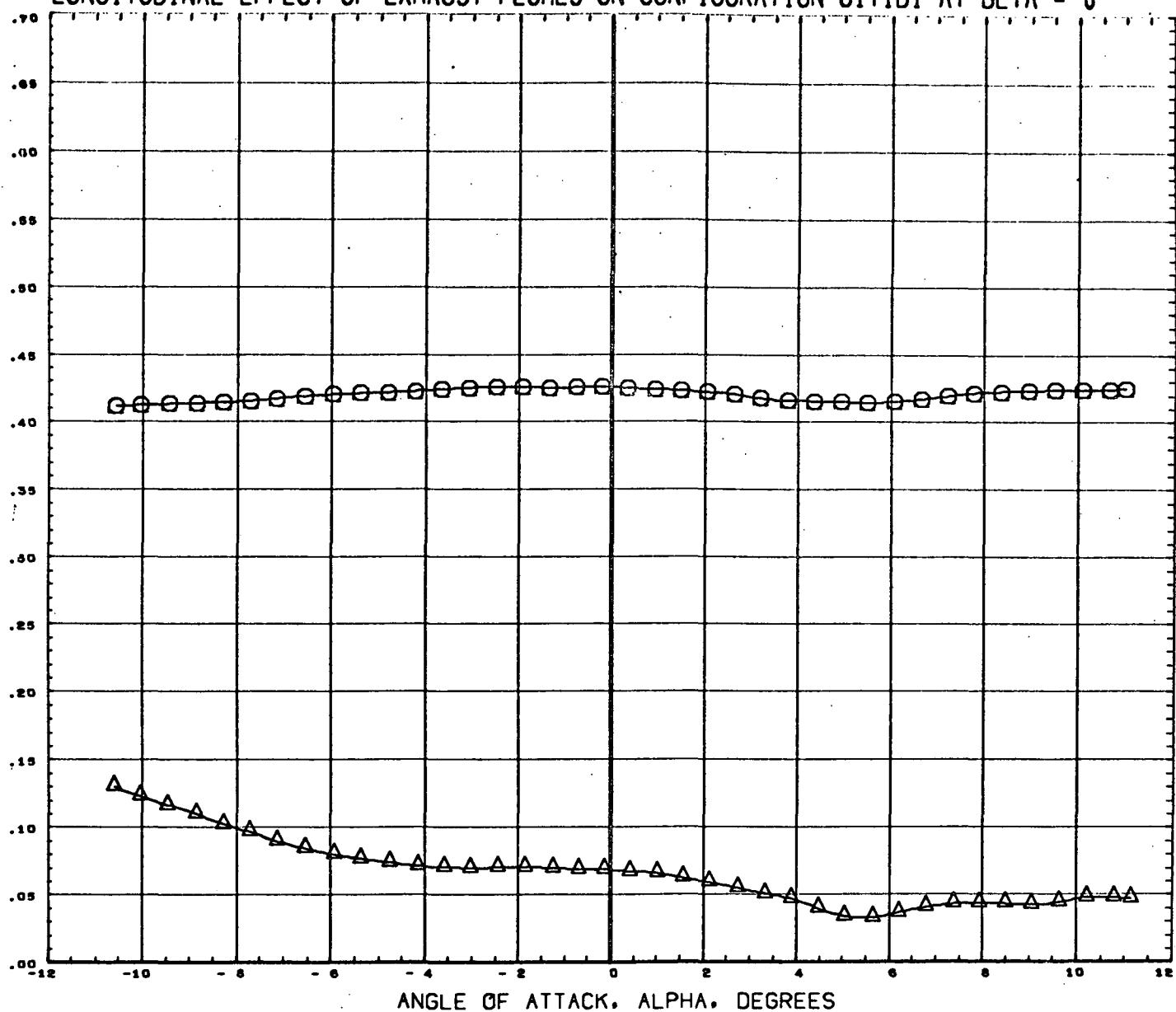
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						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

PAGE 3

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 0

AXIAL FORCE COEFFICIENT, CA



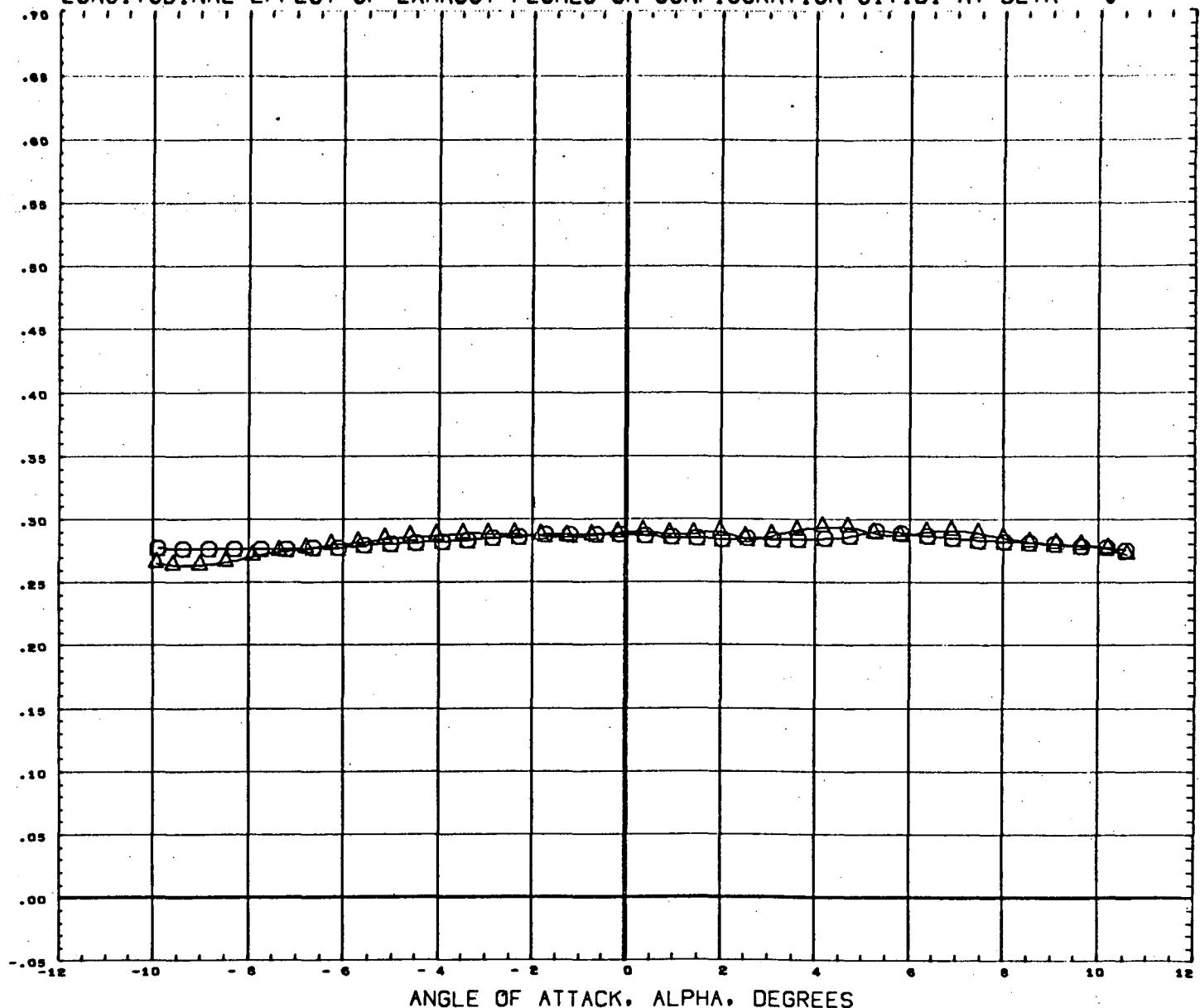
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						YMRP	0.0000
						ZMRP	200.0004
						SCALE	0.0060

MACH 2.25

PAGE 4

FOREBODY AXIAL FORCE COEFFICIENT. CAF

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 0



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MACH

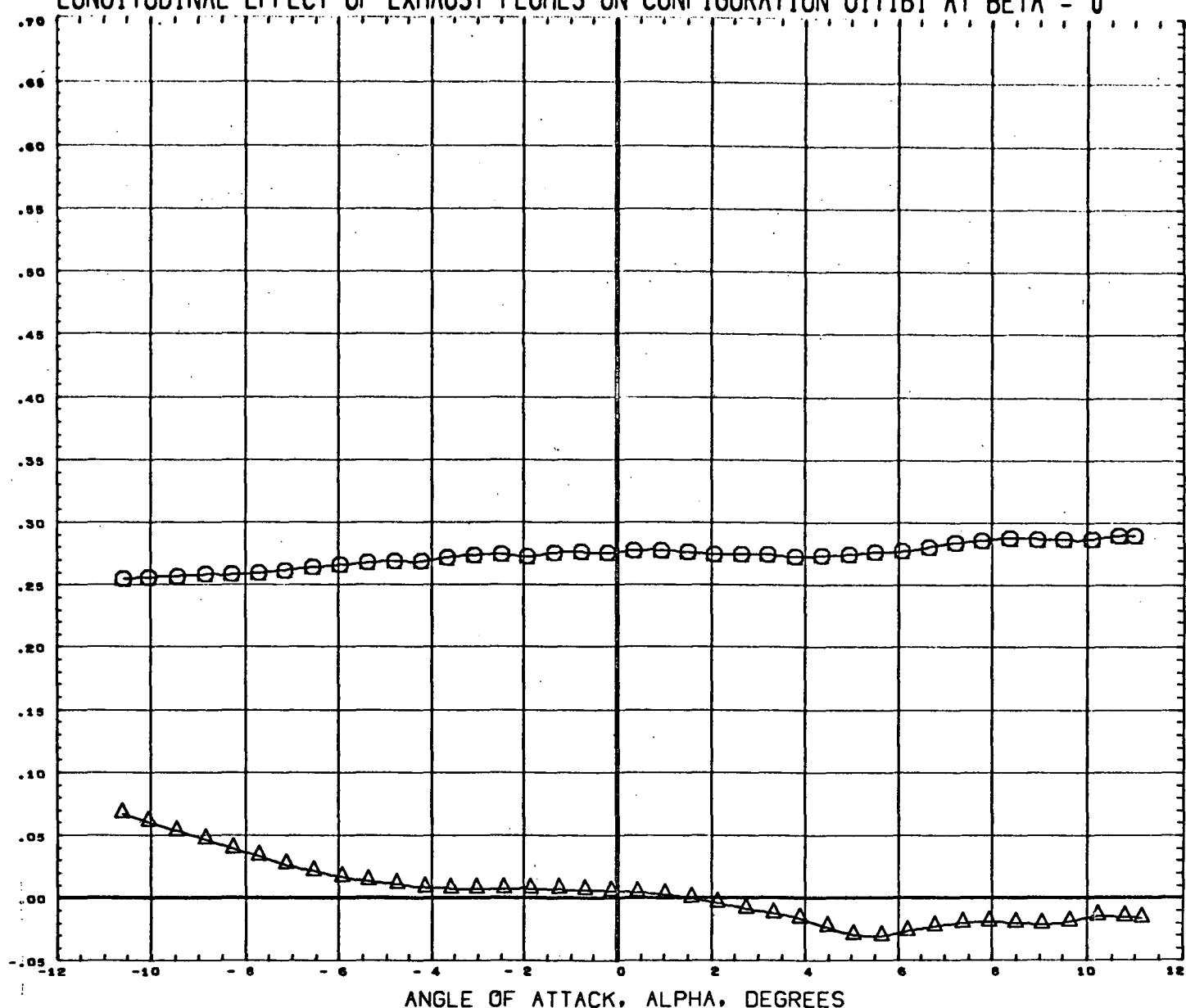
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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF



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MACH

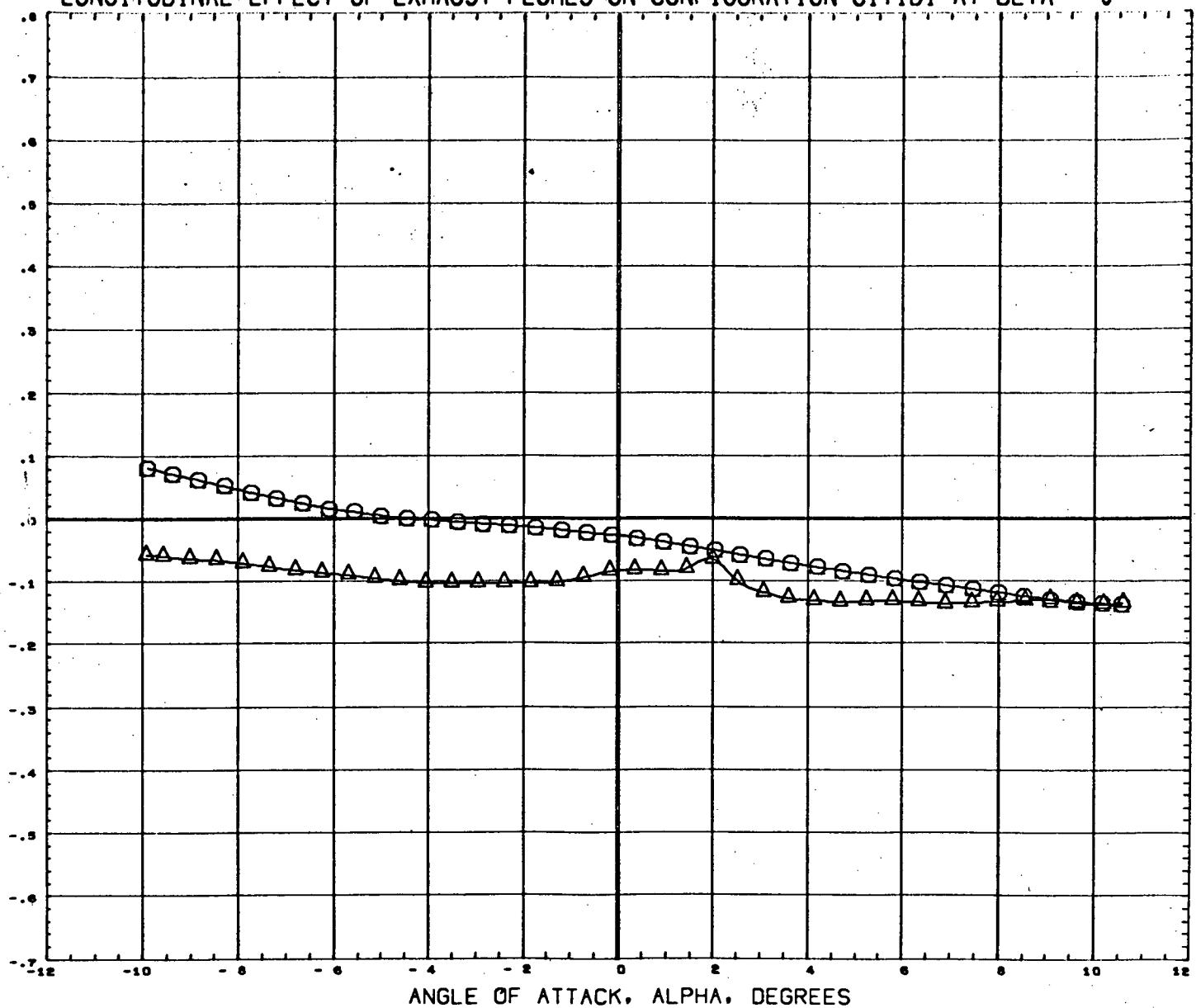
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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0

PITCHING MOMENT COEFFICIENT, CLM



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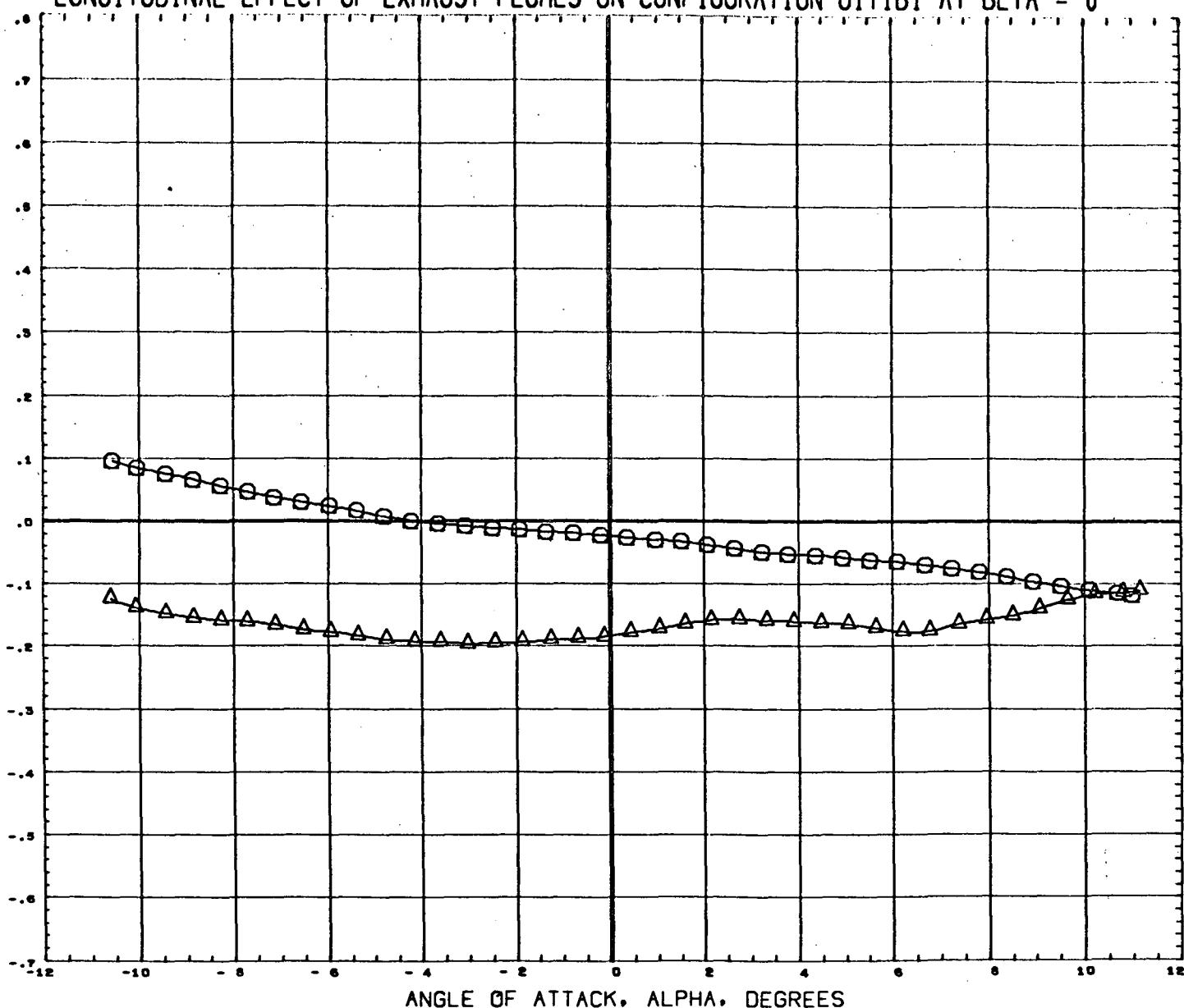
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0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 2.20

PAGE 7

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0

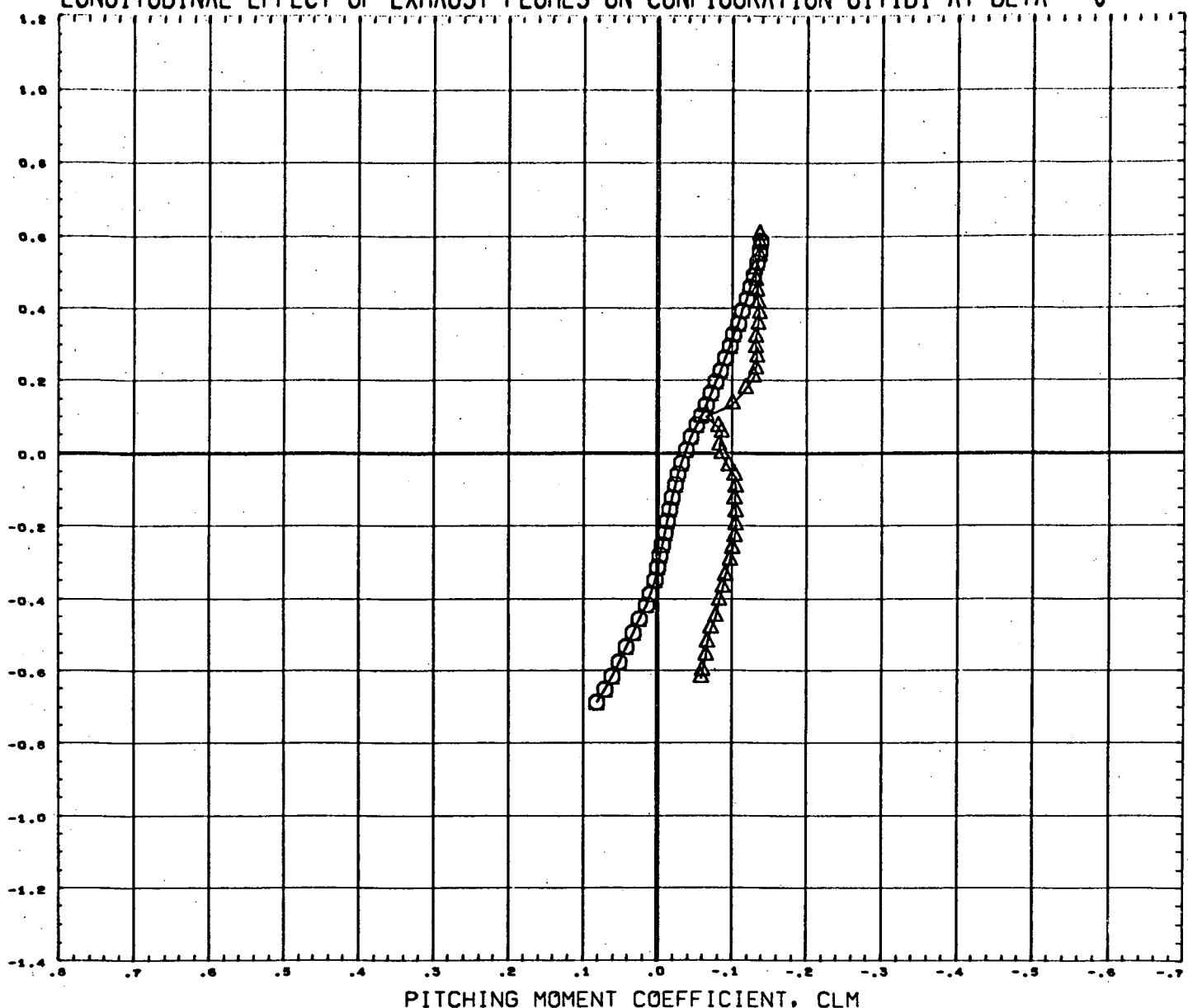
PITCHING MOMENT COEFFICIENT, CLM



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0

NORMAL FORCE COEFFICIENT, CN

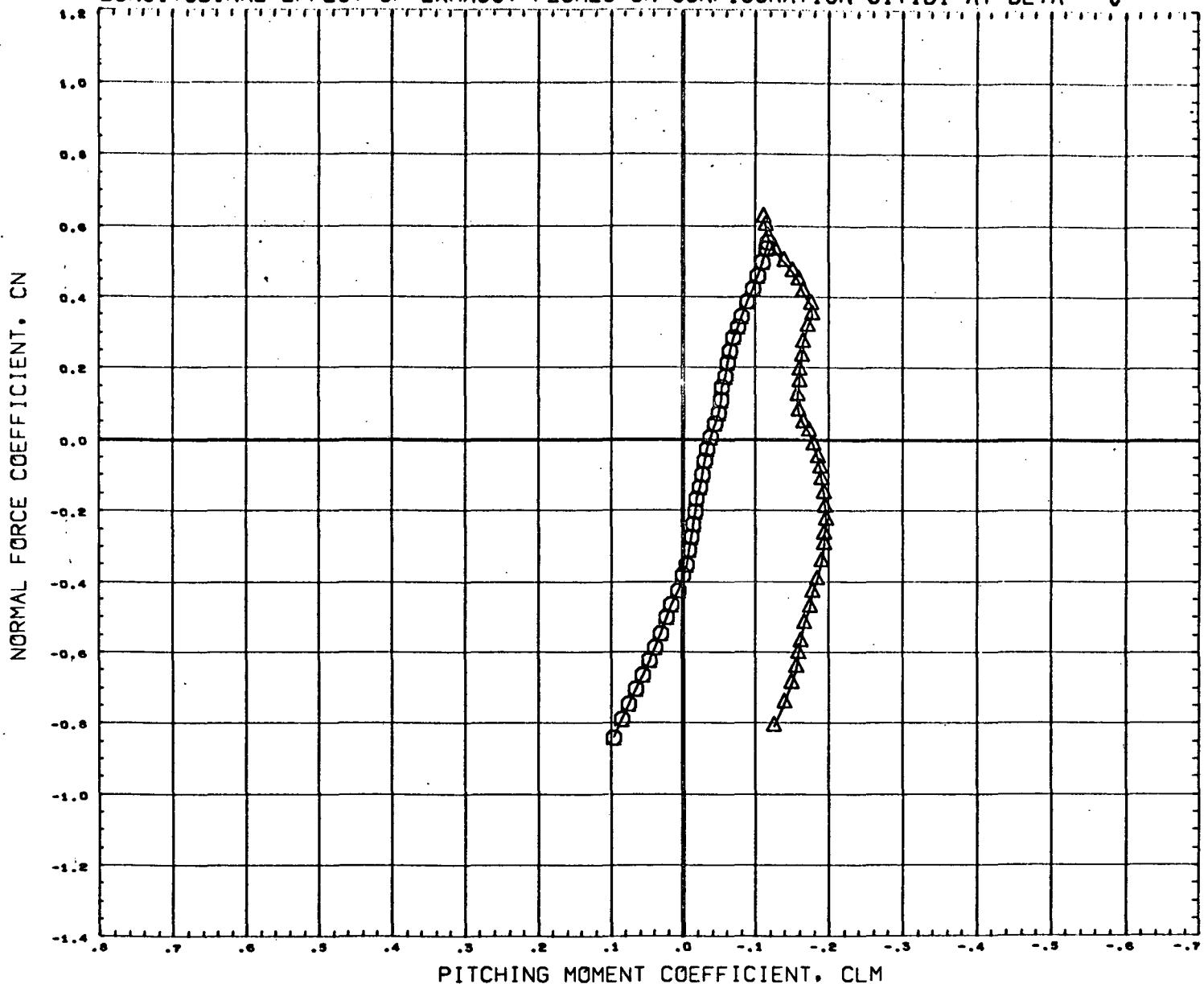


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MACH 2.20

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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0

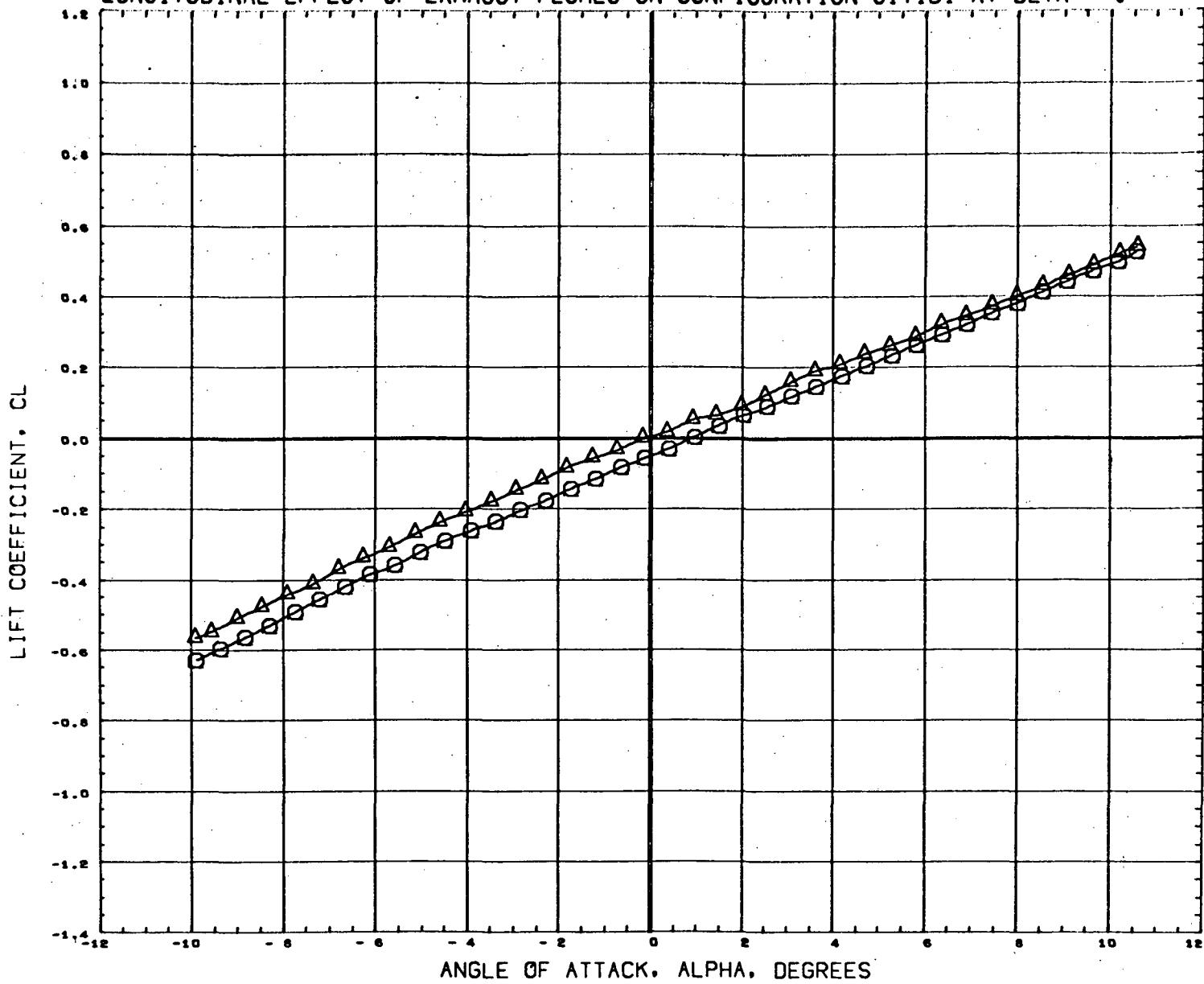


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7501)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7507)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.25

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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION

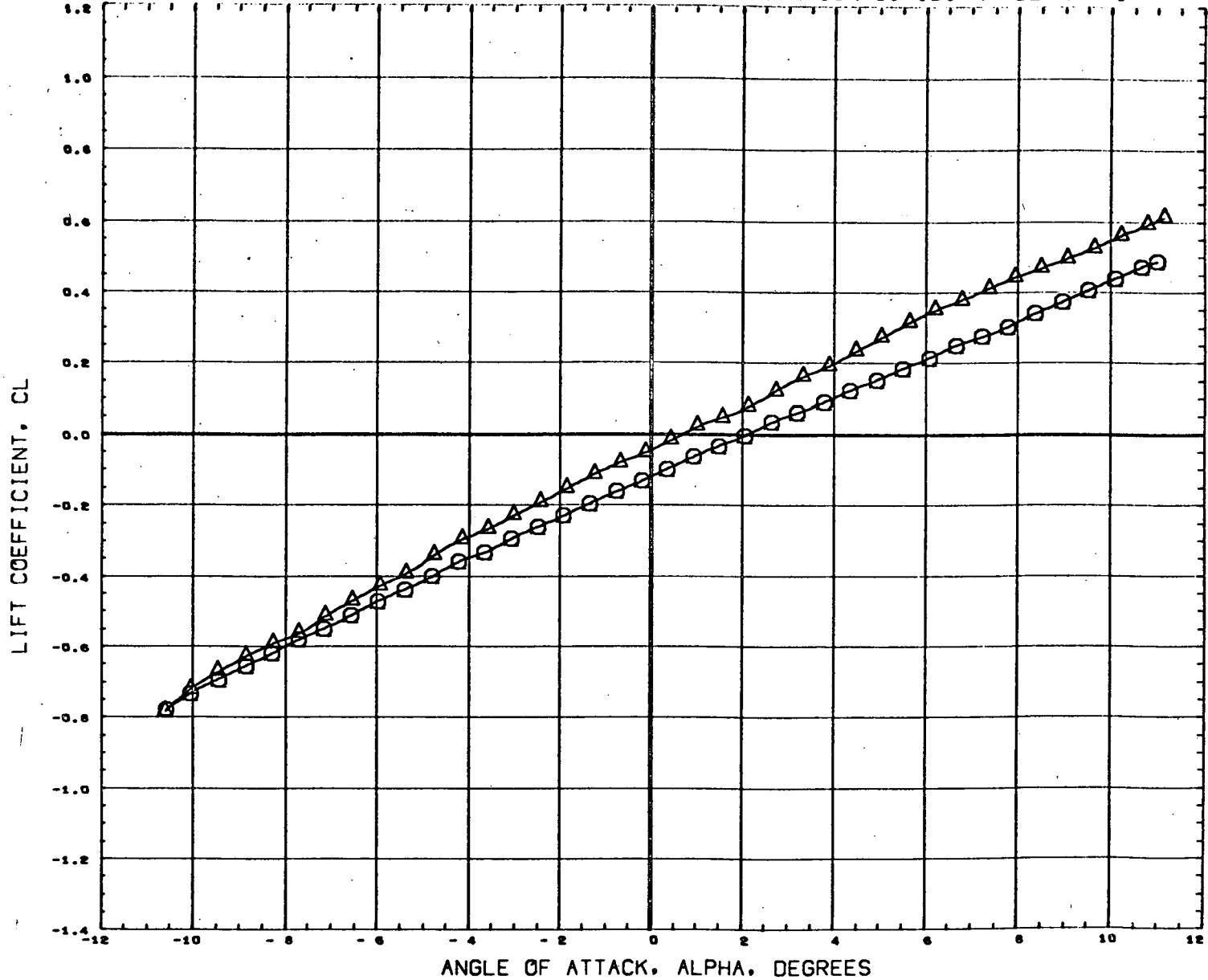
(CD7501) MDAC S-222 COMPOSITE(T-CG) O1T1B1
(CD7507) MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)

BETA	ELEVTR	AIRLN	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 2.20

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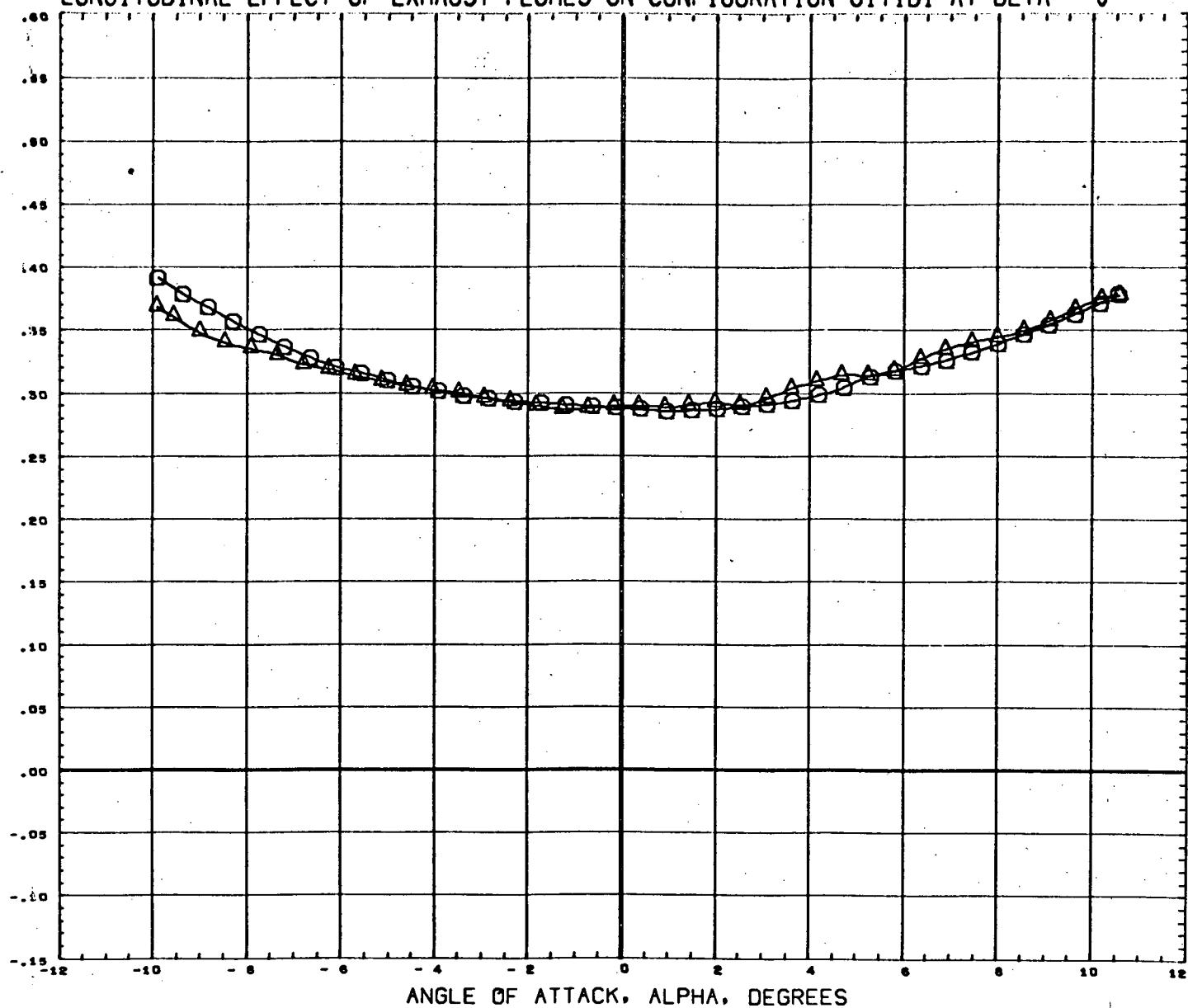
LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7501)	MDAC S-222 COMPOSITE (T-CG) 01T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7507)	MDAC S-222 COMPOSITE (T-CG) 01T1B1+PLUME (2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

FOREBODY DRAG COEFFICIENT. CDF

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0

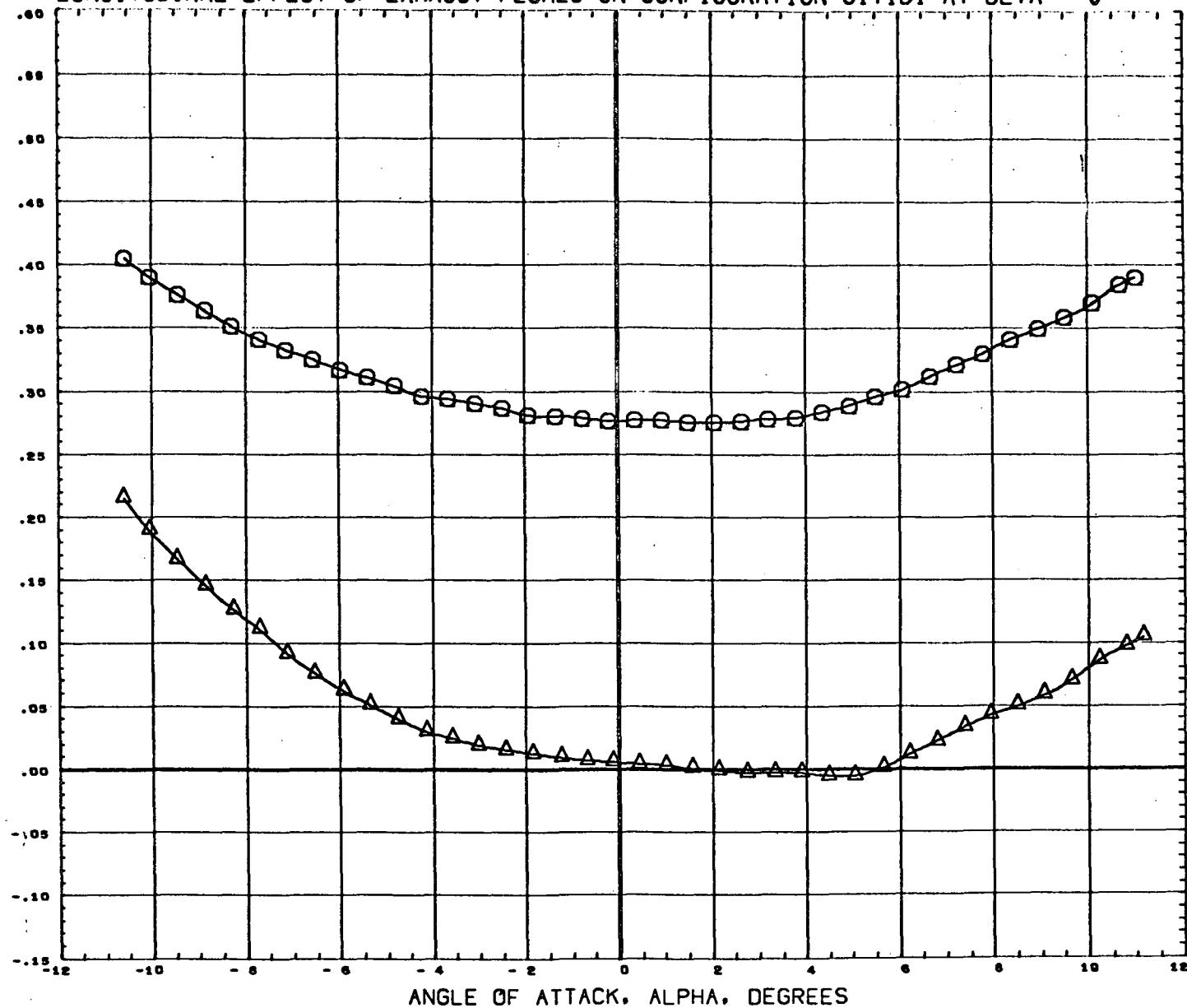


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(CD7501)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7507)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.

BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 0

FOREBODY DRAG COEFFICIENT, CDF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7501)	MDAC S-222 COMPOSITE(T-CG) 01T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7507)	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 862.0004 IN. XMRP 957.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH

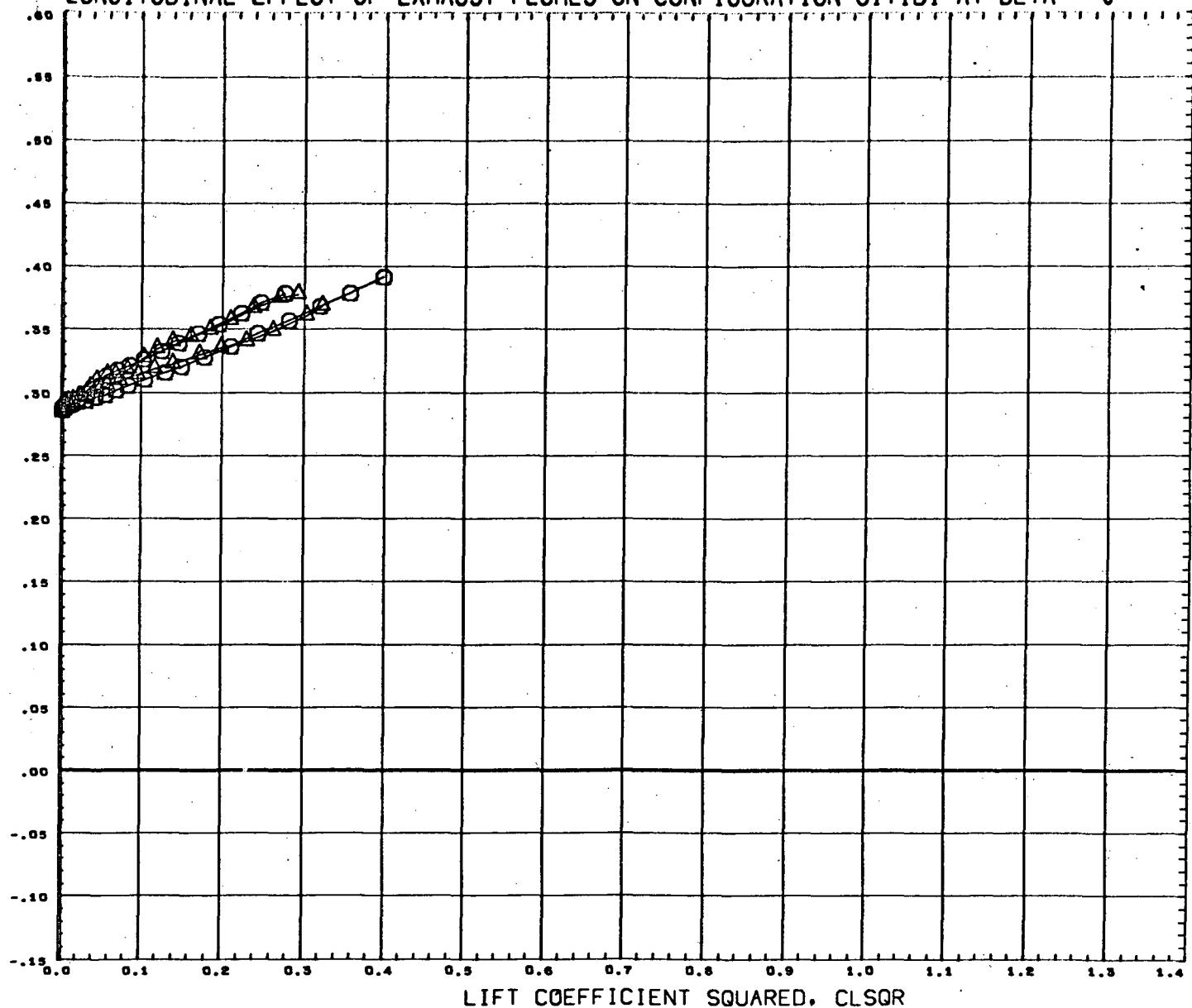
2.25

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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 0

FOREBODY DRAG COEFFICIENT. CDF



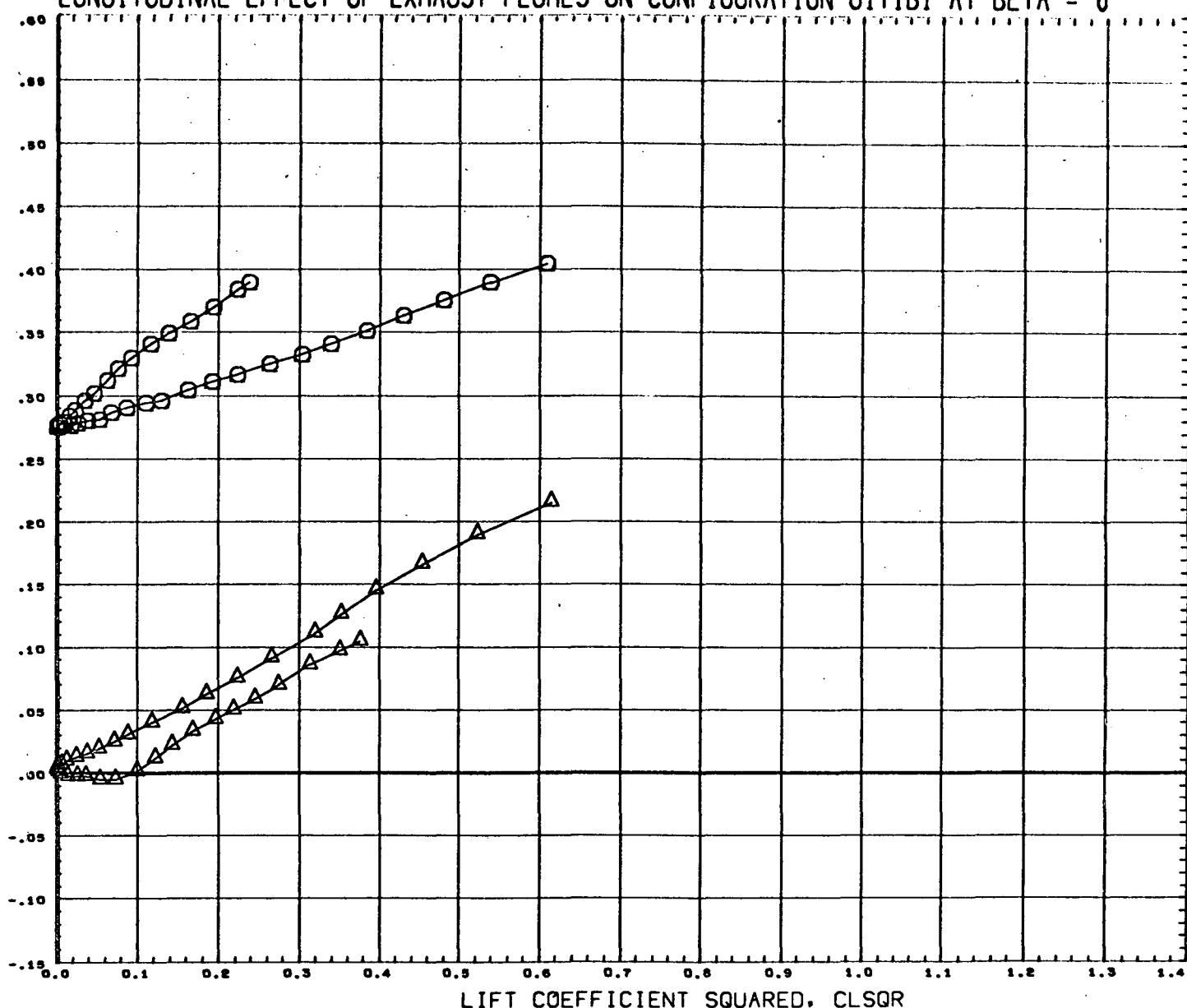
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7501)	Q	MDAC S-222 COMPOSITE(T-CG) 01T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7507)	W	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME (2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0

FOREBODY DRAG COEFFICIENT. CDF

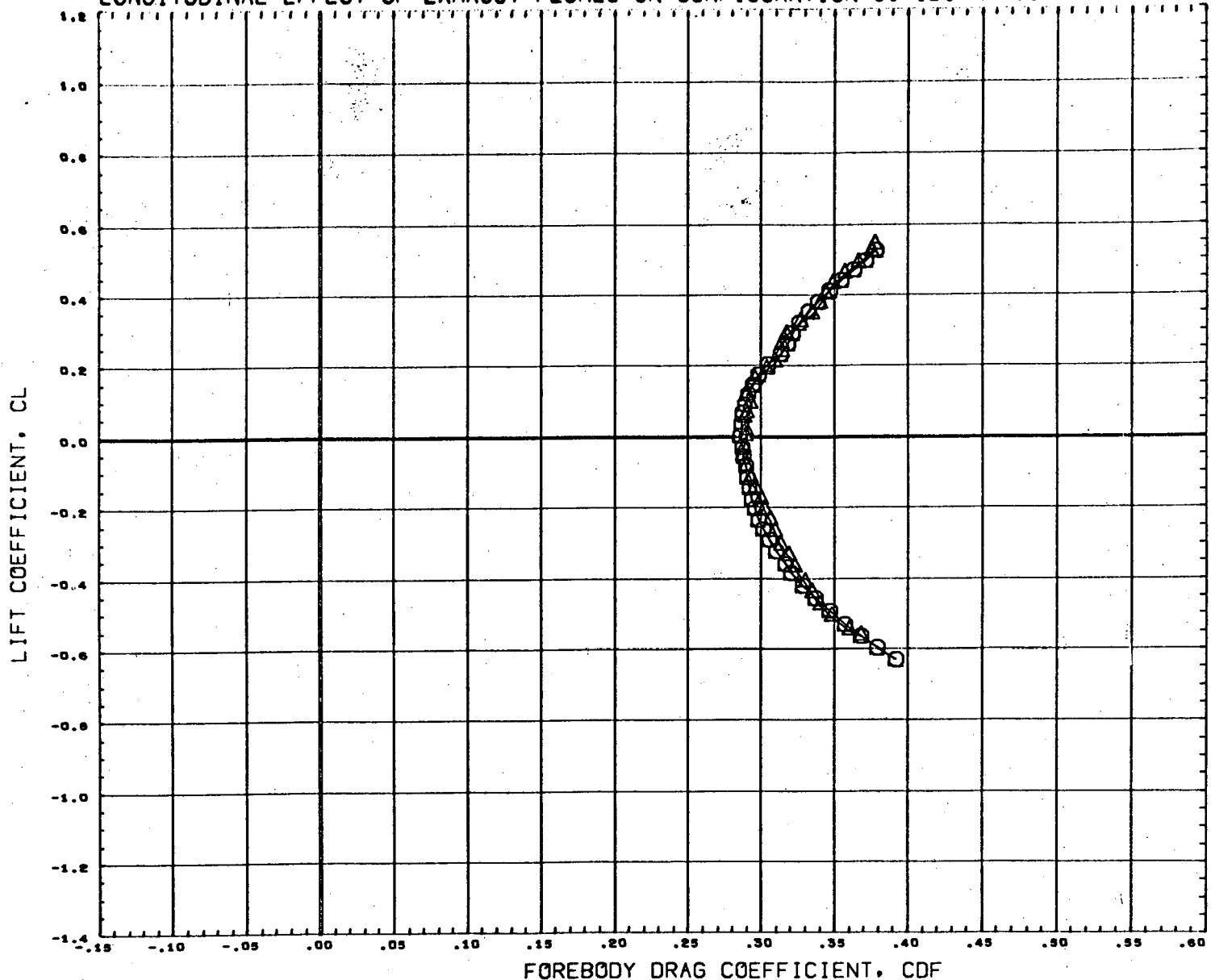


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(CD7501)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7507)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 937.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.25

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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0

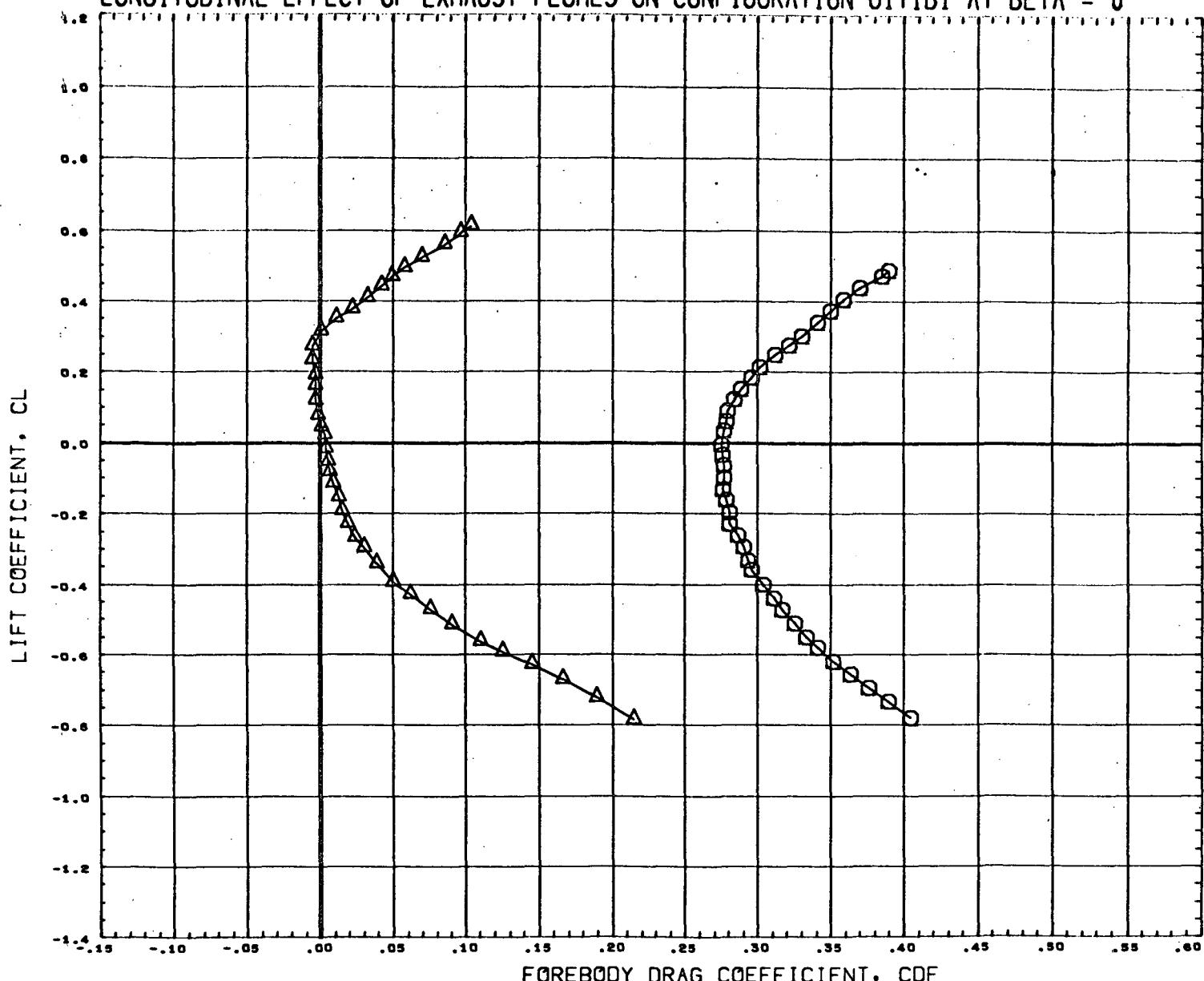


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD75D1)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75D7)	D	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

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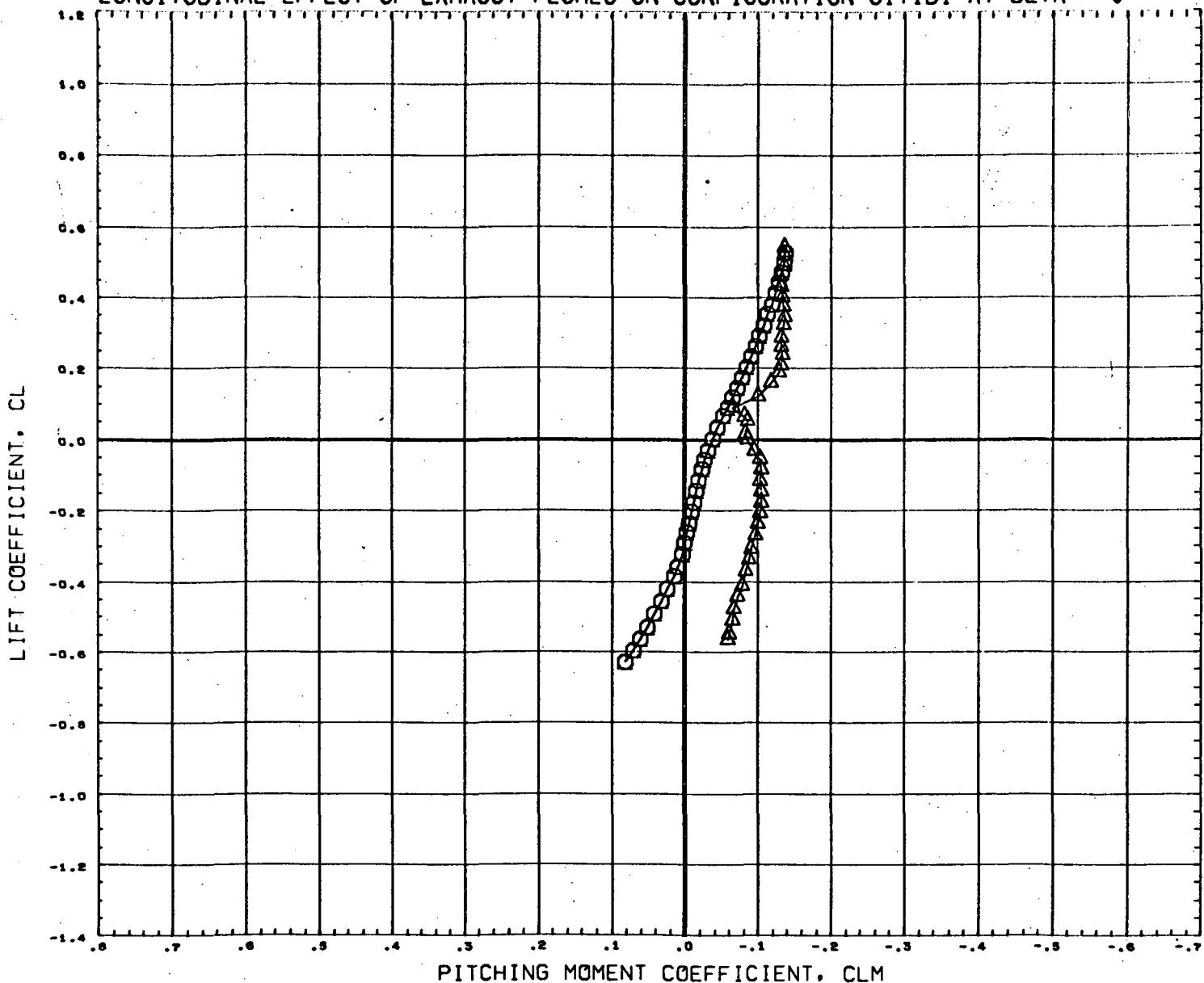
LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7501) MDAC S-222 COMPOSITE(T-CG) O1T1B1
 (CD7507) MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME (2.5)

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004, IN.
				BREF 882.0004, IN.
				XMRP 557.0004, IN.
				YMRP 0.0000, IN.
				ZMRP 200.0004, IN.
				SCALE 0.0060

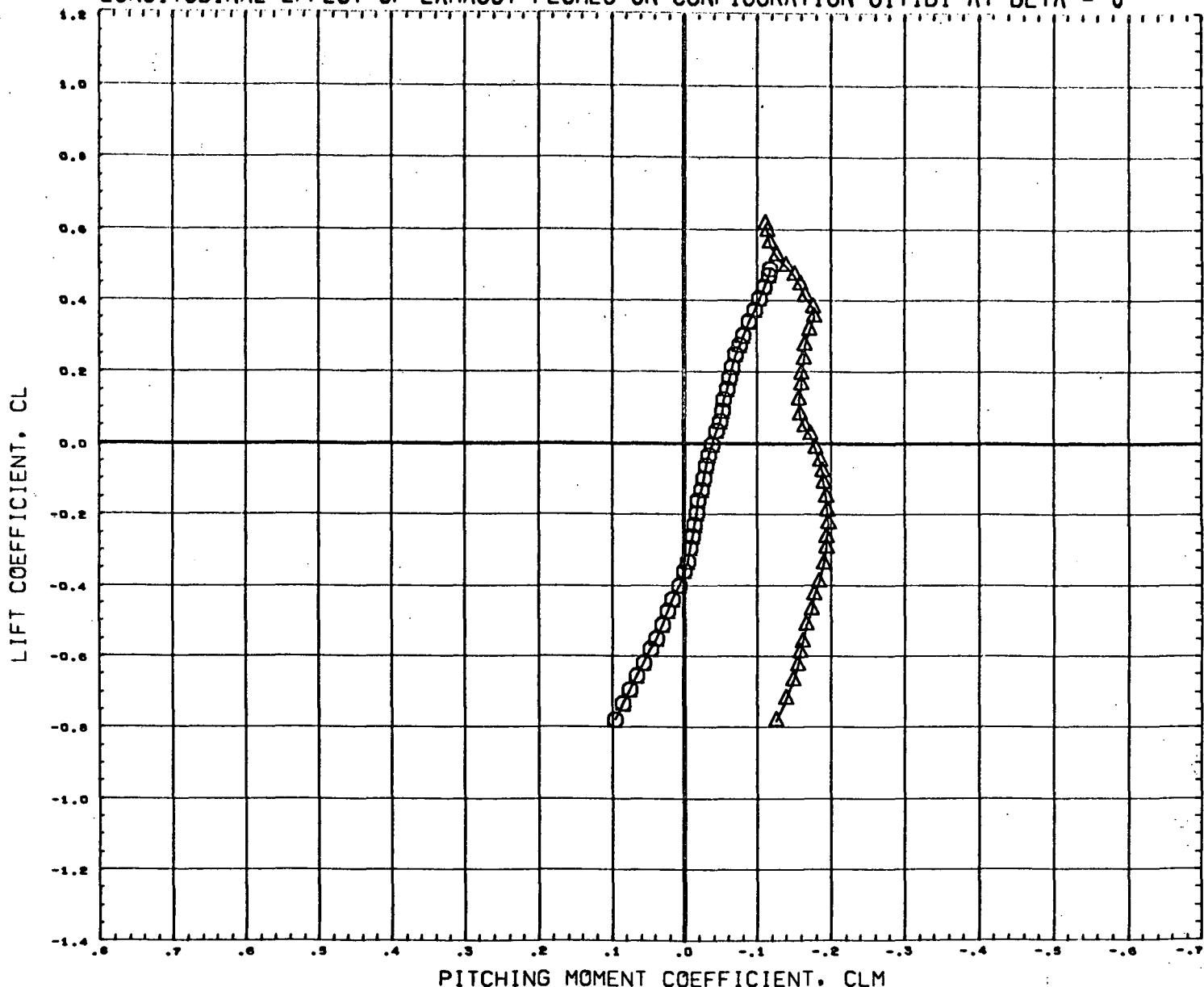
LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (CD7507) MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)

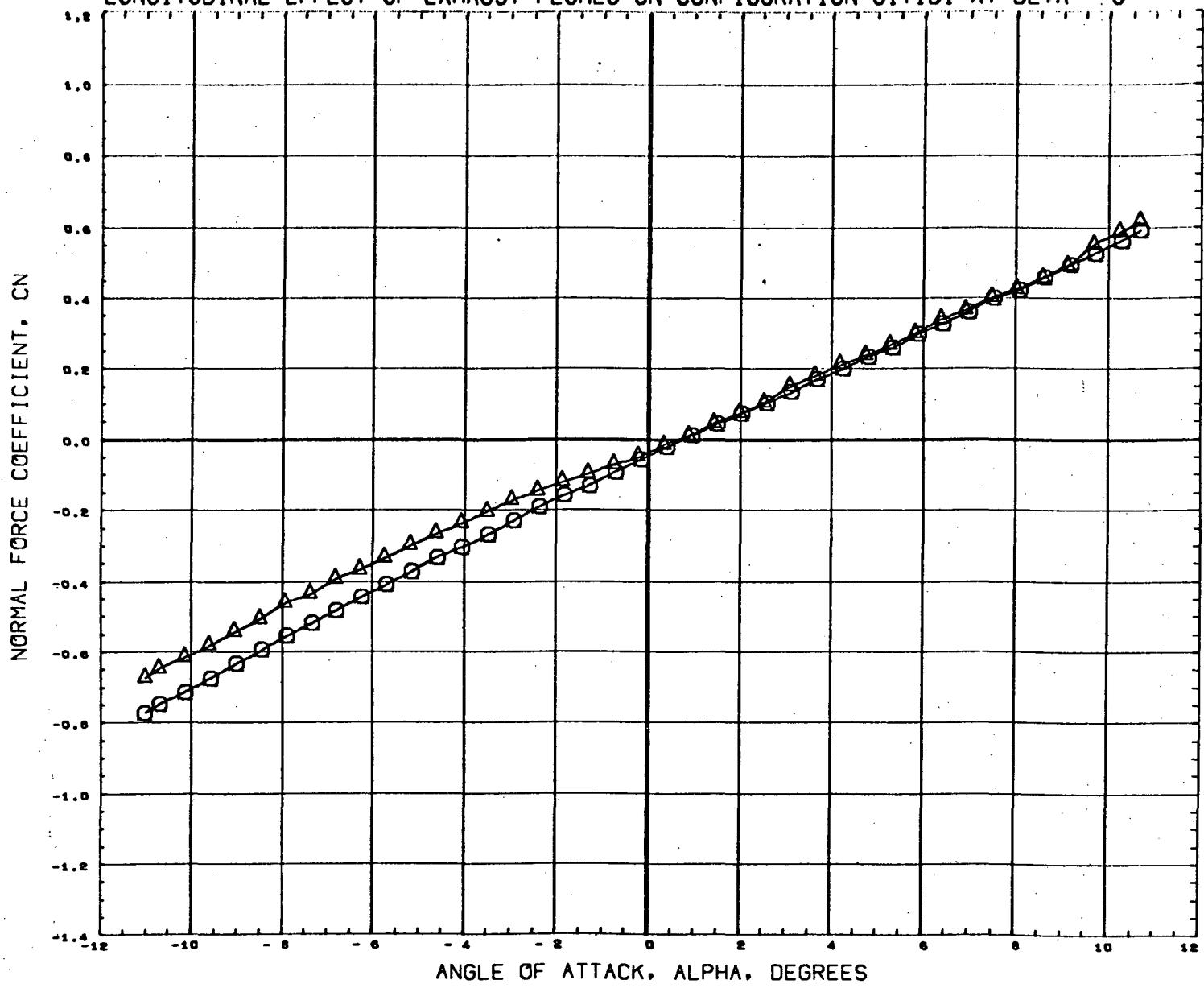
BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 357.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7501)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT. LREF 609.5004 IN.
(CD7507)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 6



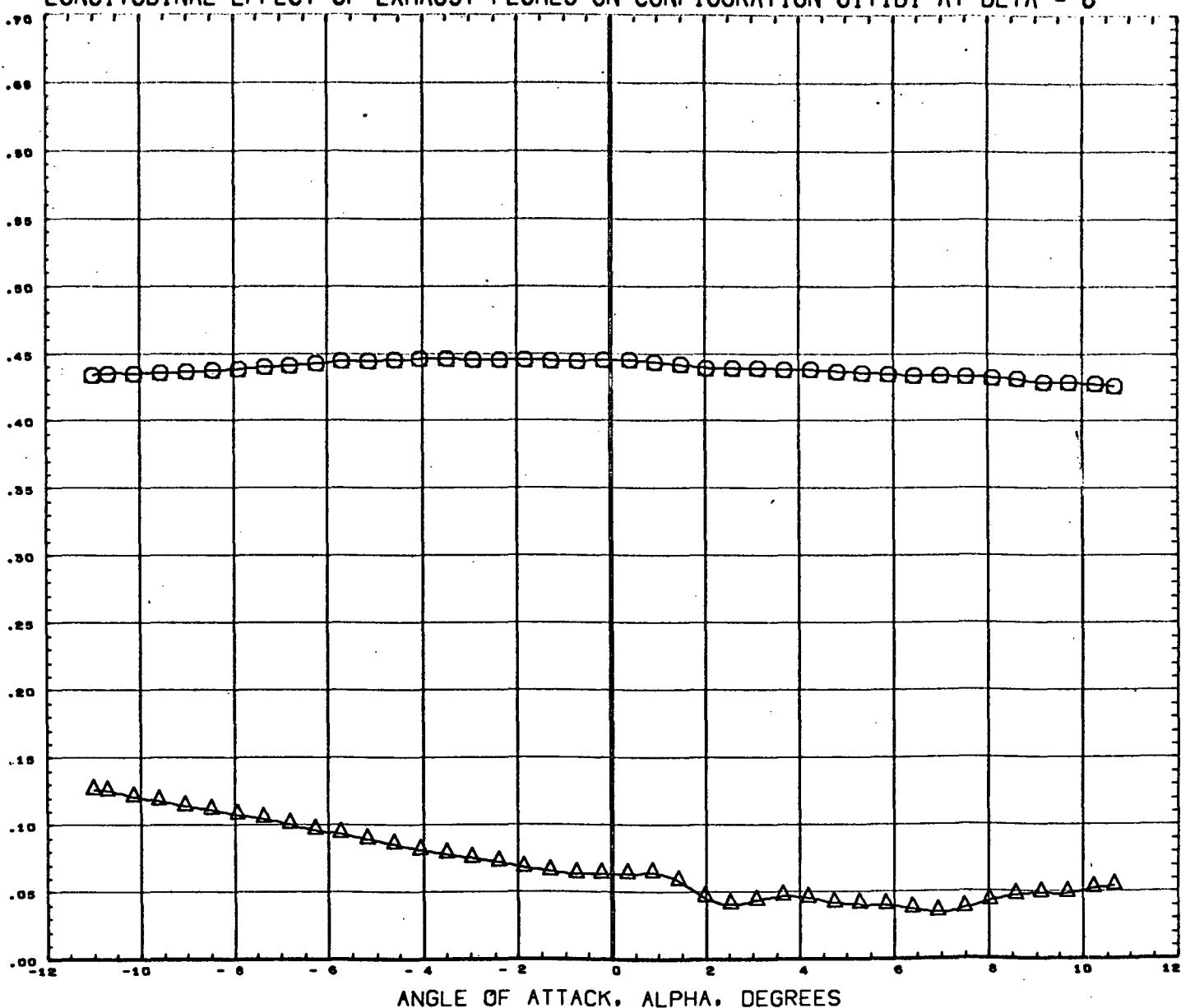
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION		
(CD7503)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	6.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(CD7508)	△	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	6.000	0.000	0.000	0.000	LREF	609.5004	IN.
							BREF	682.0004	IN.
							XMRP	557.0004	IN.
							YMRP	0.0000	IN.
							ZMRP	200.0004	IN.
							SCALE	0.0060	

MACH 2.20

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LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 6

AXIAL FORCE COEFFICIENT, CA



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7503)	MDAC S-222 COMPOSITE(T-CG) 01T1B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7508)	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XHRP 557.0004 IN. YHRP 0.0000 IN. ZHRP 200.0004 IN. SCALE 0.0060

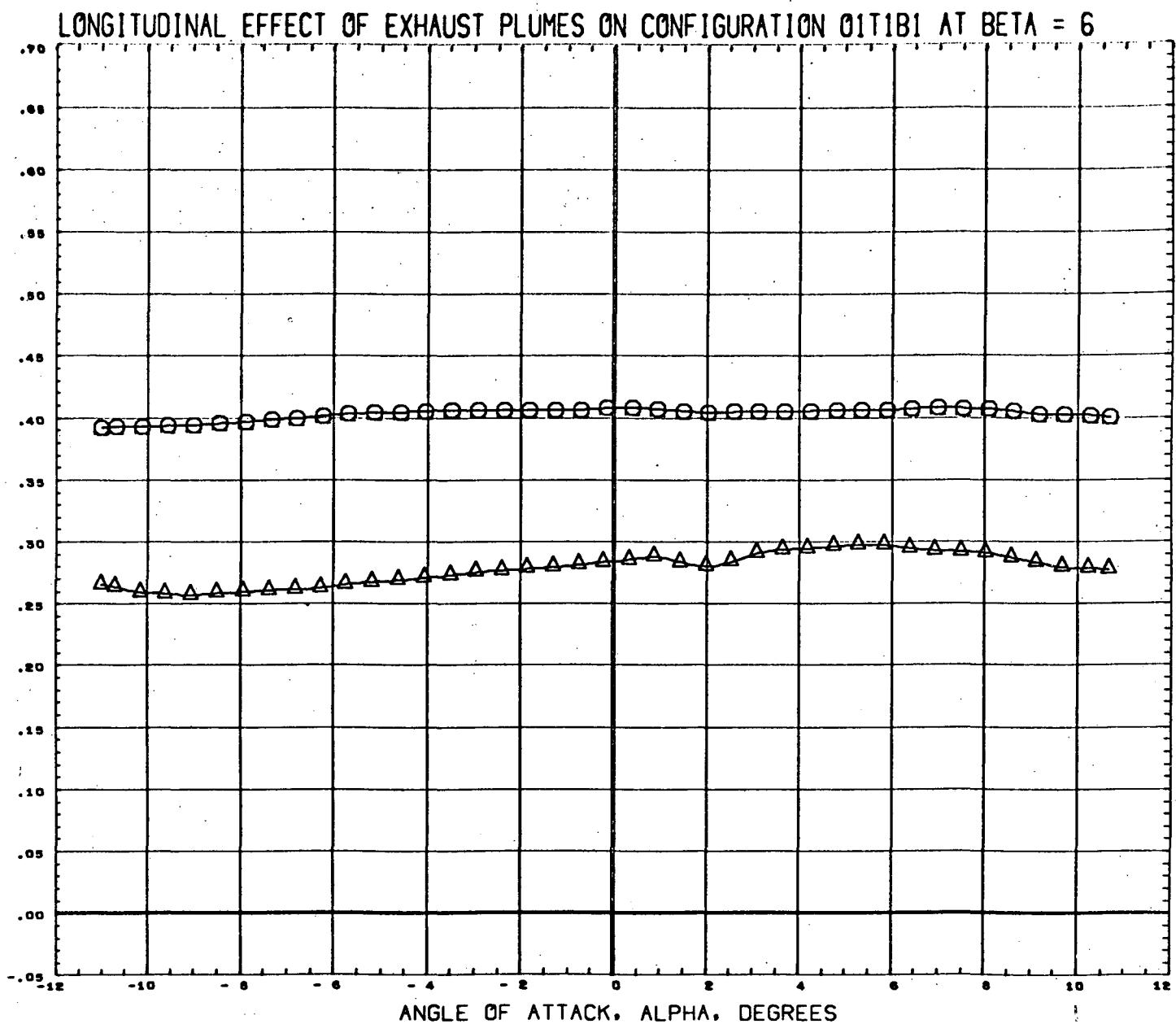
MACH

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FOREBODY AXIAL FORCE COEFFICIENT, C_{AF}



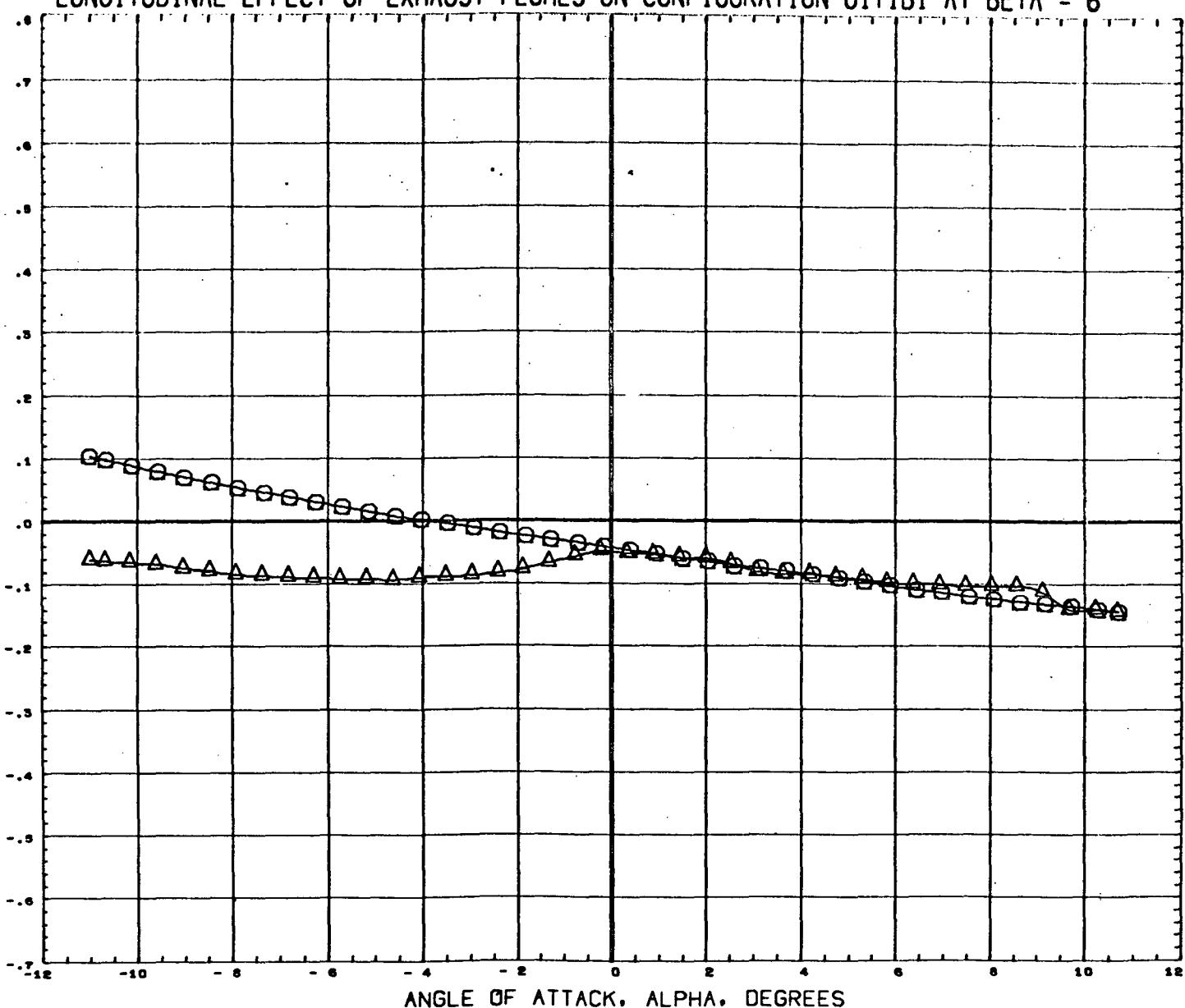
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	SREF	3155.3040	SQ.FT.
(CD7503)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	6.000	0.000	0.000	0.000	LREF	609.5004	IN.
(CD7508)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	6.000	0.000	0.000	0.000	BREF	882.0004	IN.
					XMRP	557.0004	IN.	
					YMRP	0.0000	IN.	
					ZMRP	200.0004	IN.	
					SCALE	0.0060		

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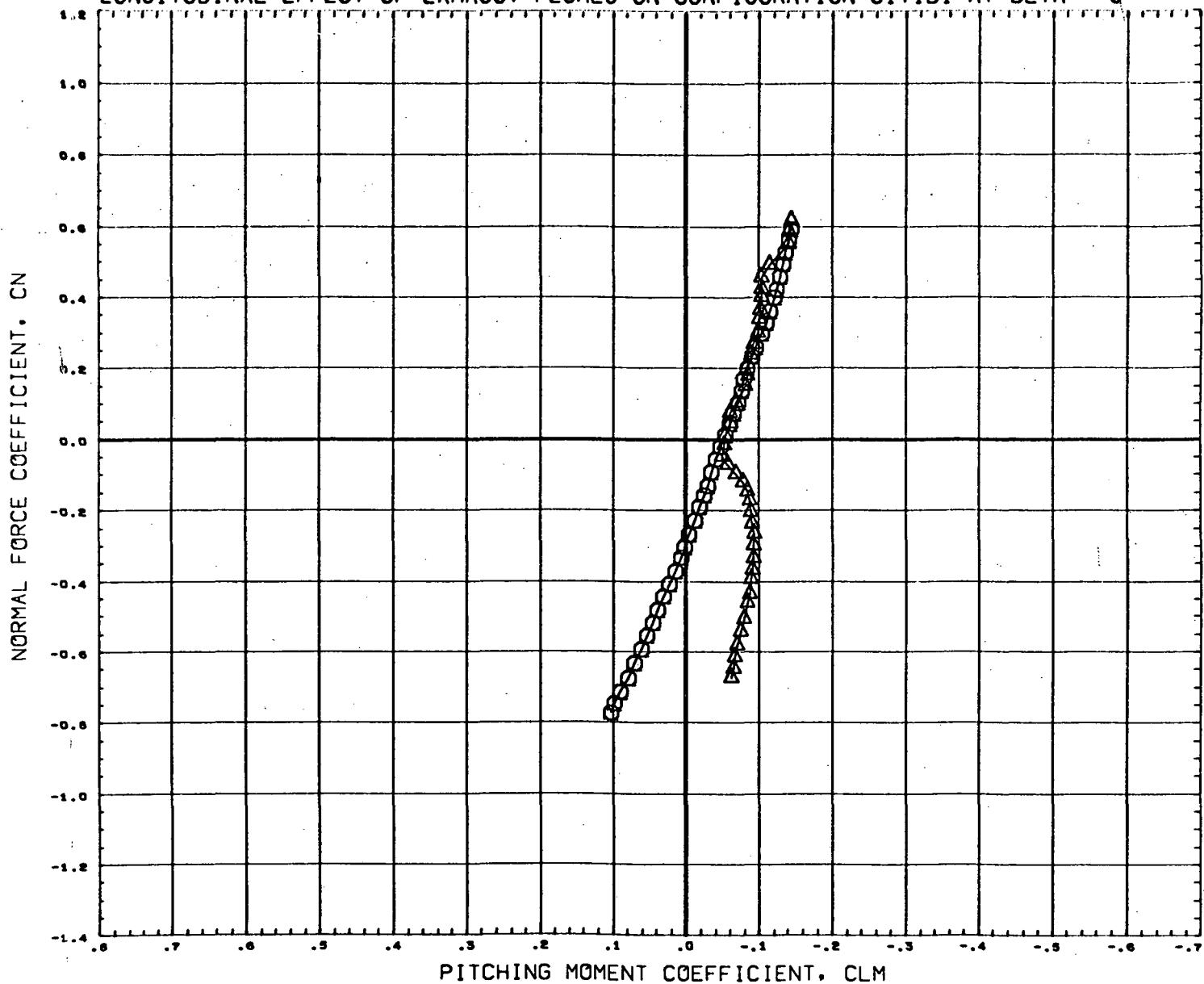
LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 6

PITCHING MOMENT COEFFICIENT, CLM



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7503)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT. LREF 609.5004 IN.
(CD7506)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (2.5)	6.000	0.000	0.000	0.000	BREF 682.0004 IN. XMRP 957.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 6

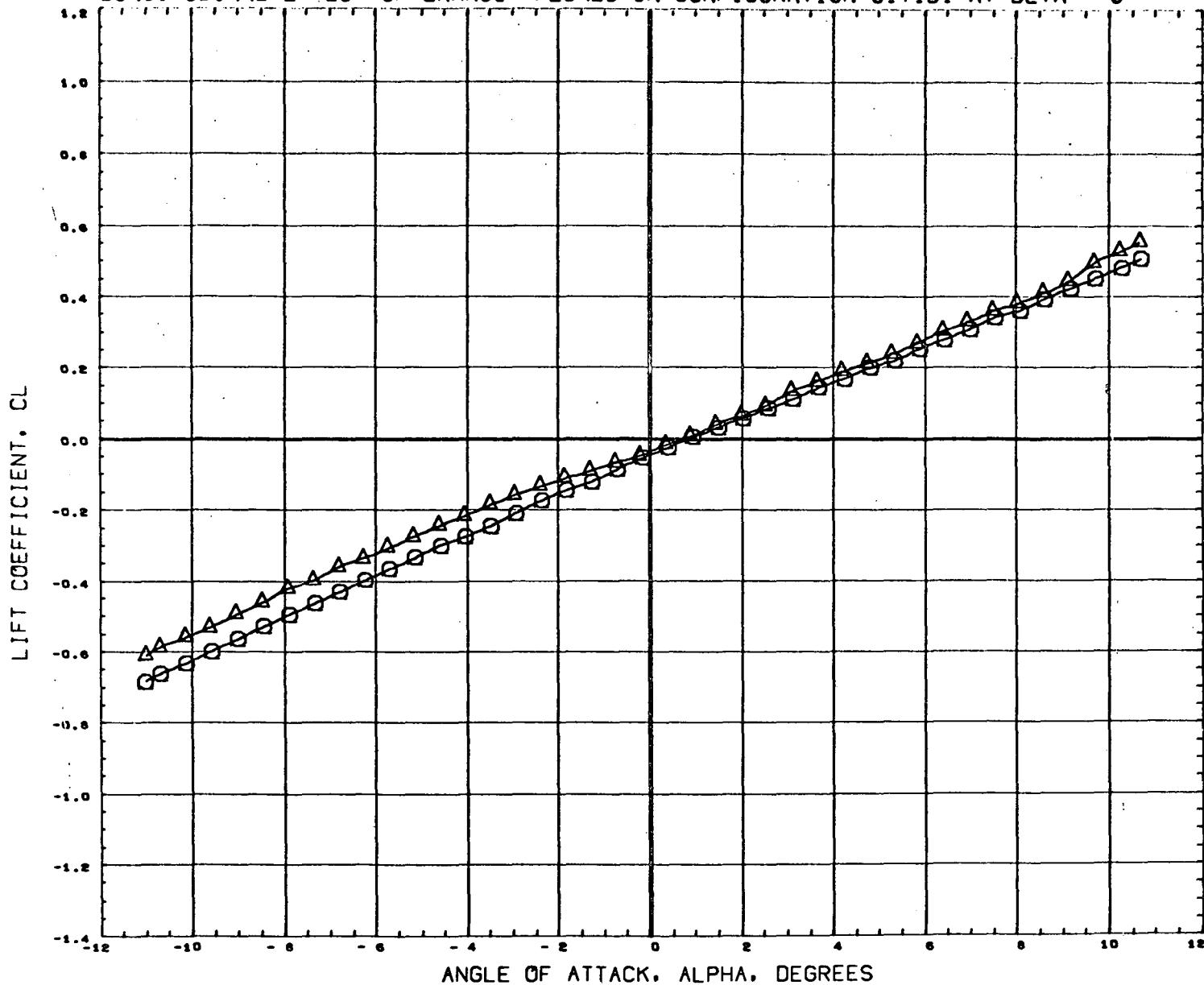


DATA SET SYMBOL		CONFIGURATION DESCRIPTION			BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
(CD7503)	○	MDAC S-222 COMPOSITE(T-CG)	01T1B1		6.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7506)	△	MDAC S-222 COMPOSITE(T-CG)	01T1B1+PLUME(2.5)		6.000	0.000	0.000	0.000	LREF	609.5004 IN.
									BREF	882.0004 IN.
									XMRP	557.0004 IN.
									YMRP	0.0000 IN.
									ZMRP	200.0004 IN.
									SCALE	0.0060

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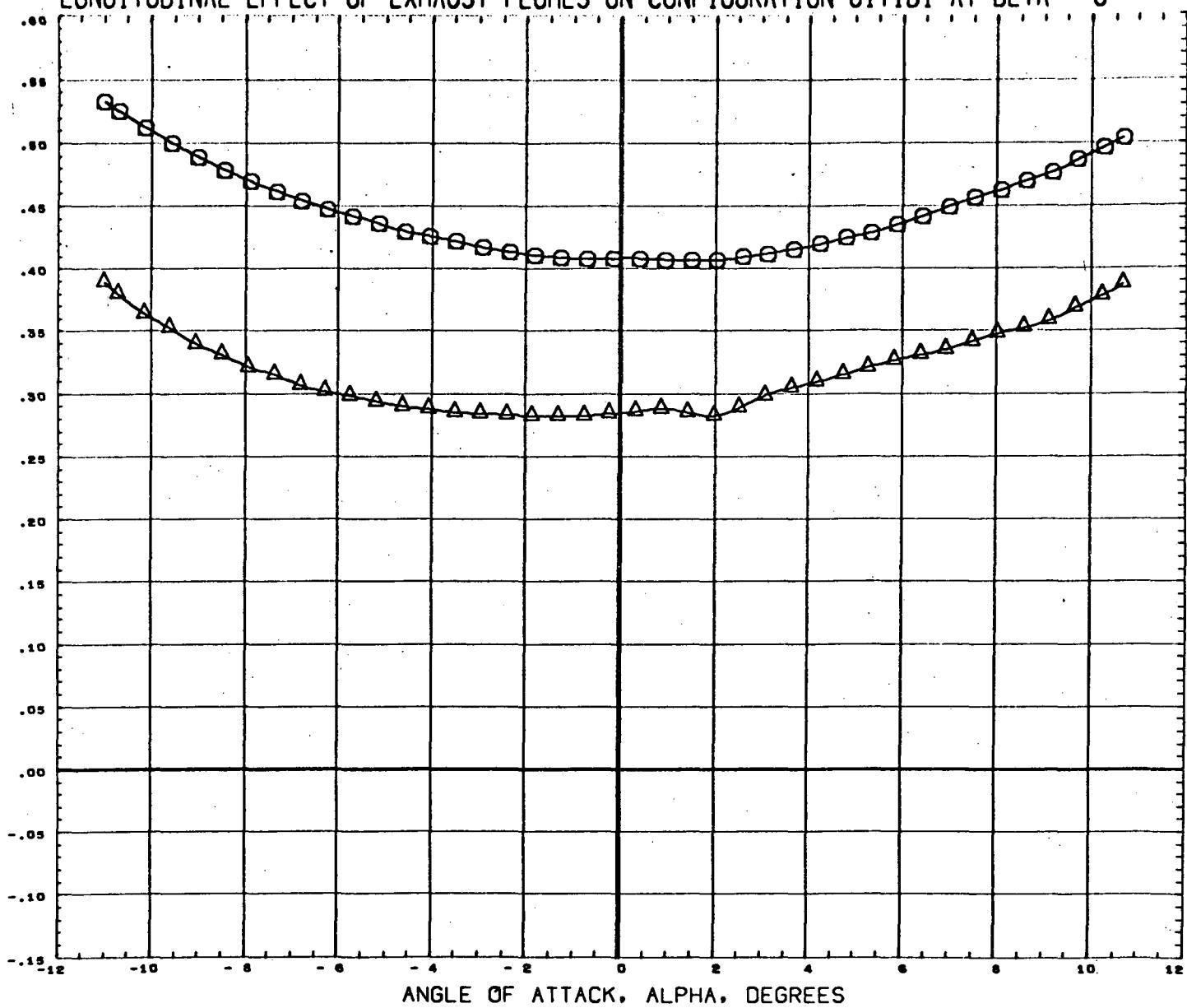
LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 6



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7503)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT. LREF 609.5004 IN.
(CD7506)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	6.000	0.000	0.000	0.000	BREF 862.0004 IN. XMRP 957.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 6

FOREBODY DRAG COEFFICIENT. CDF



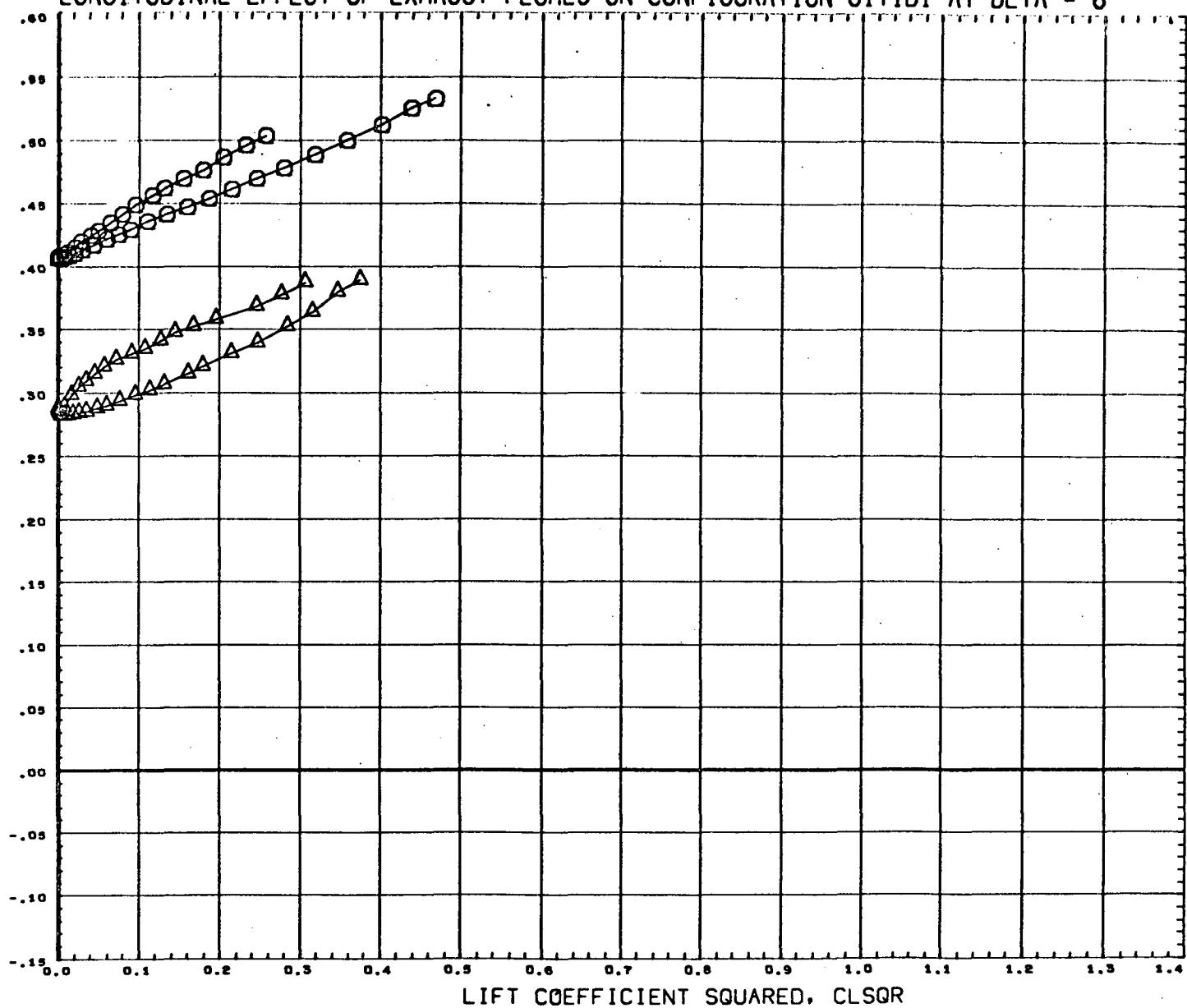
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7503)	○	MDAC S-222 COMPOSITE(T-CG) O1T1B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7508)	△	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME (2.5)	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

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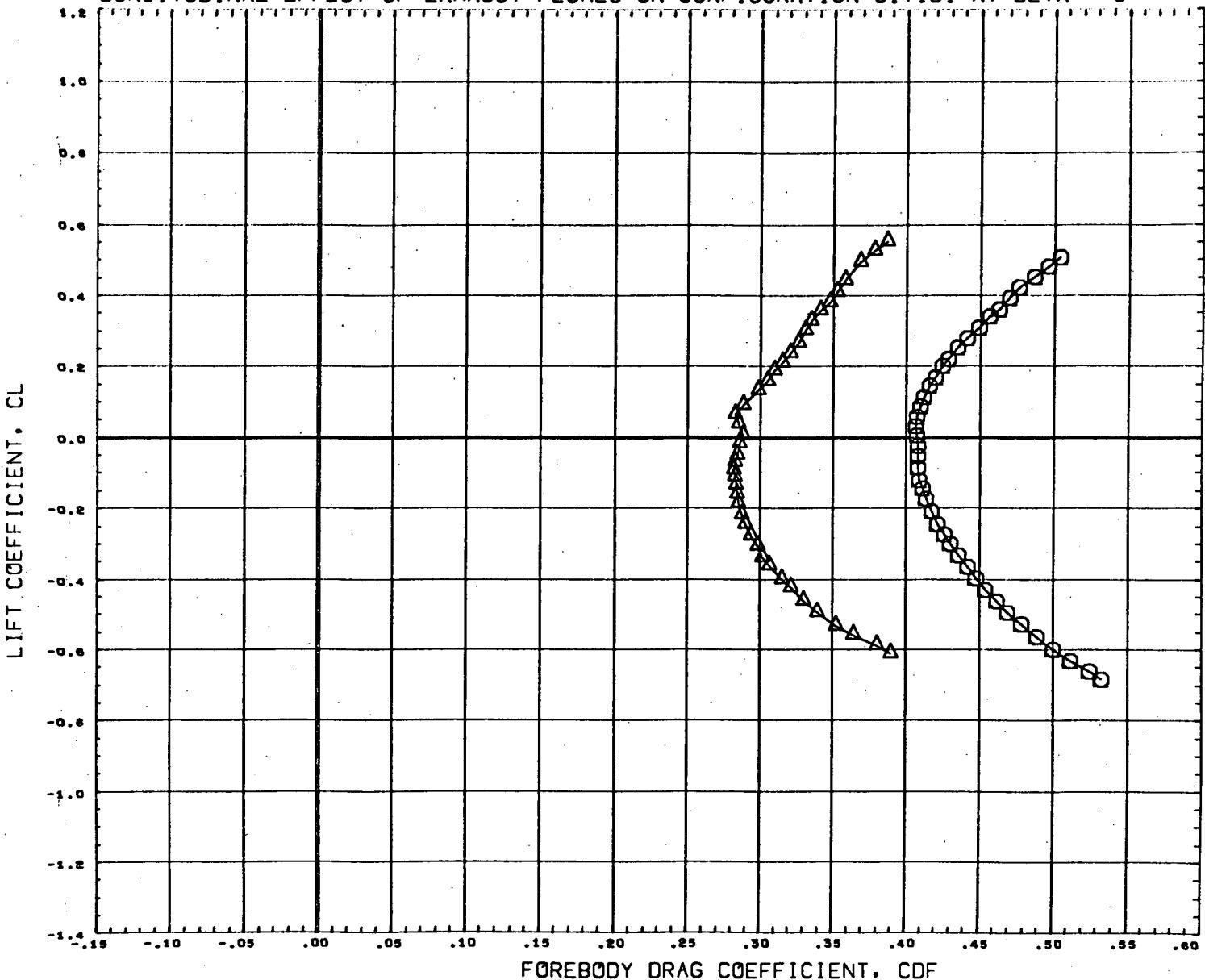
LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 6

FOREBODY DRAG COEFFICIENT, CDF



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7503)	○	MDAC S-222 COMPOSITE(T-CG) 01T1B1	6.000	0.000	0.000	0.000	SREF 3155.304D SQ.FT.
(CD7508)	△	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF .682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

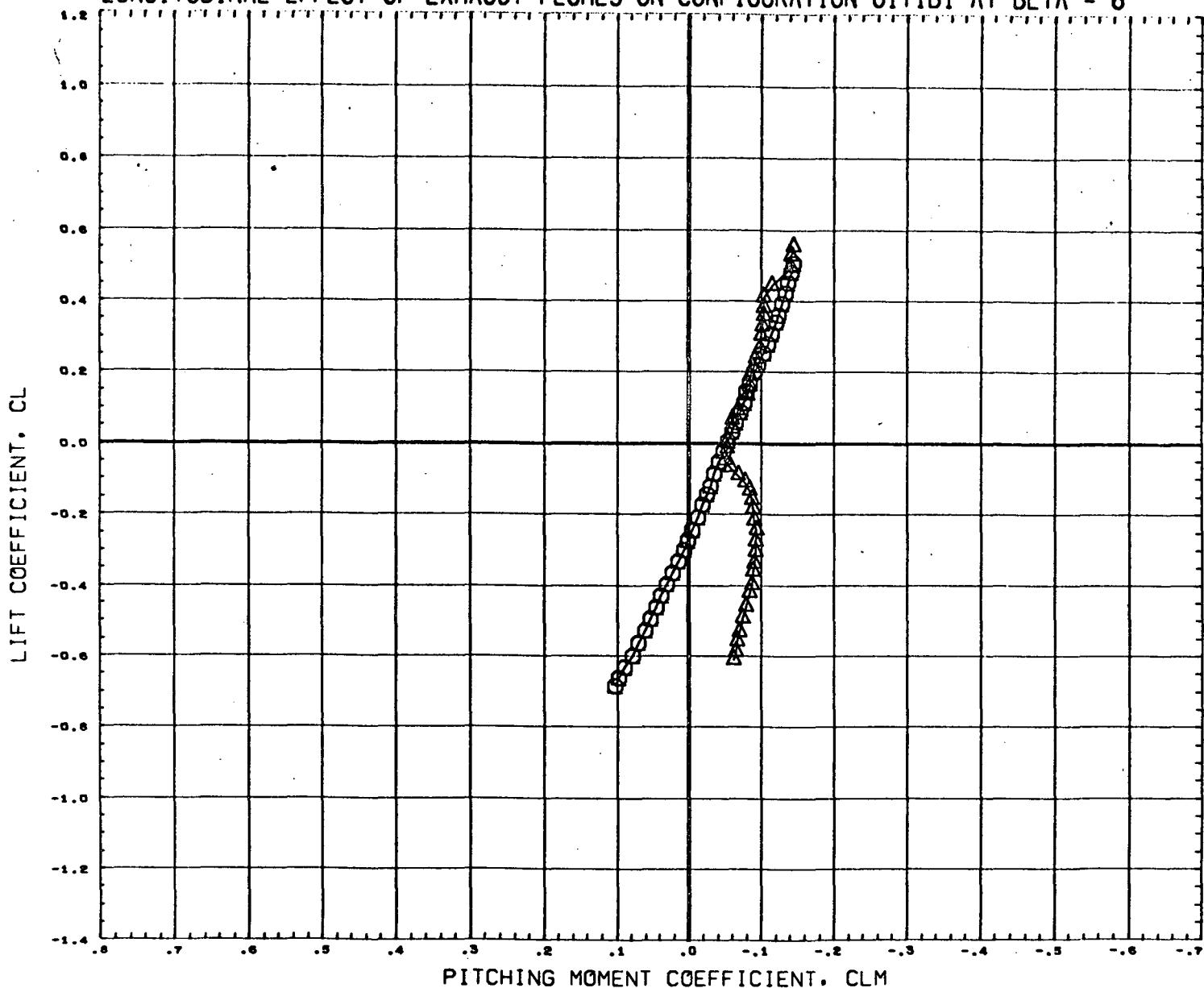
LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION O1T1B1 AT BETA = 6



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7503) □ MDAC S-222 COMPOSITE(T-CG) O1T1B1
 (CD7508) △ MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 662.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LONGITUDINAL EFFECT OF EXHAUST PLUMES ON CONFIGURATION 01T1B1 AT BETA = 6



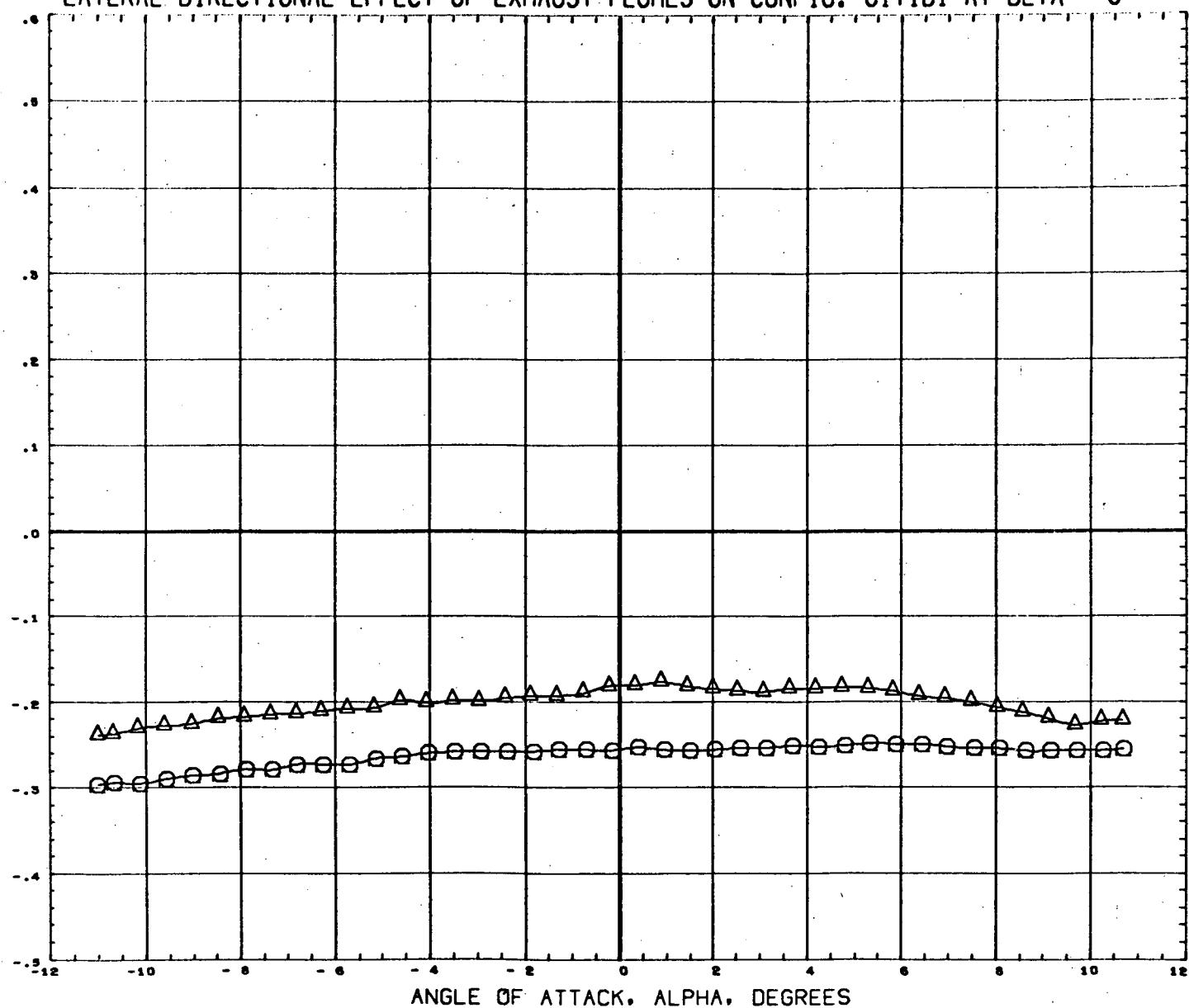
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7503)	MDAC S-222 COMPOSITE(T-CG) 01T1B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7508)	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 862.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LATERAL-DIRECTIONAL EFFECT OF EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 6

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION	
(RD7503)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	6.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7508)	X	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
							BREF	682.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

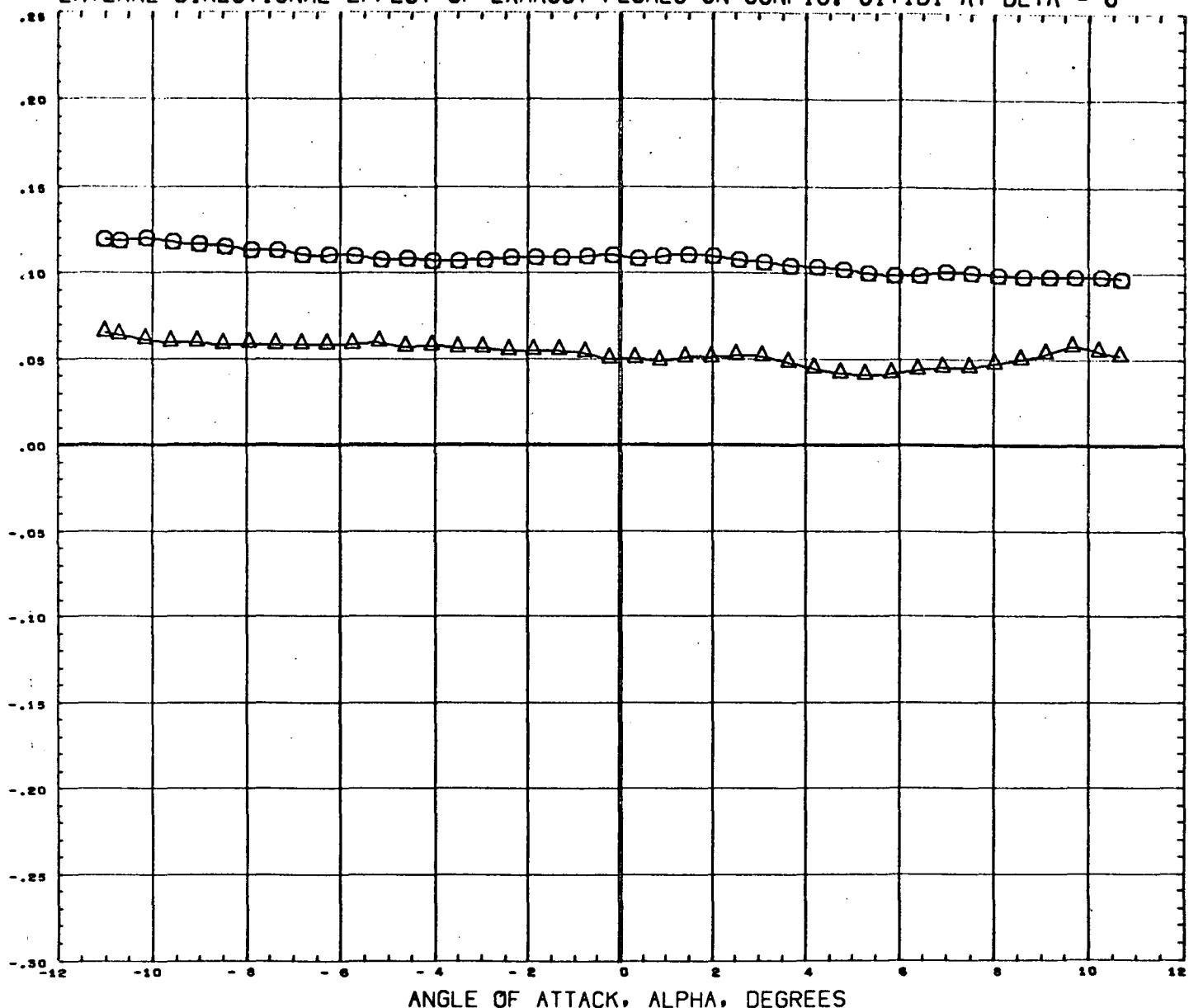
MACH

2.20

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LATERAL-DIRECTIONAL EFFECT OF EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 6

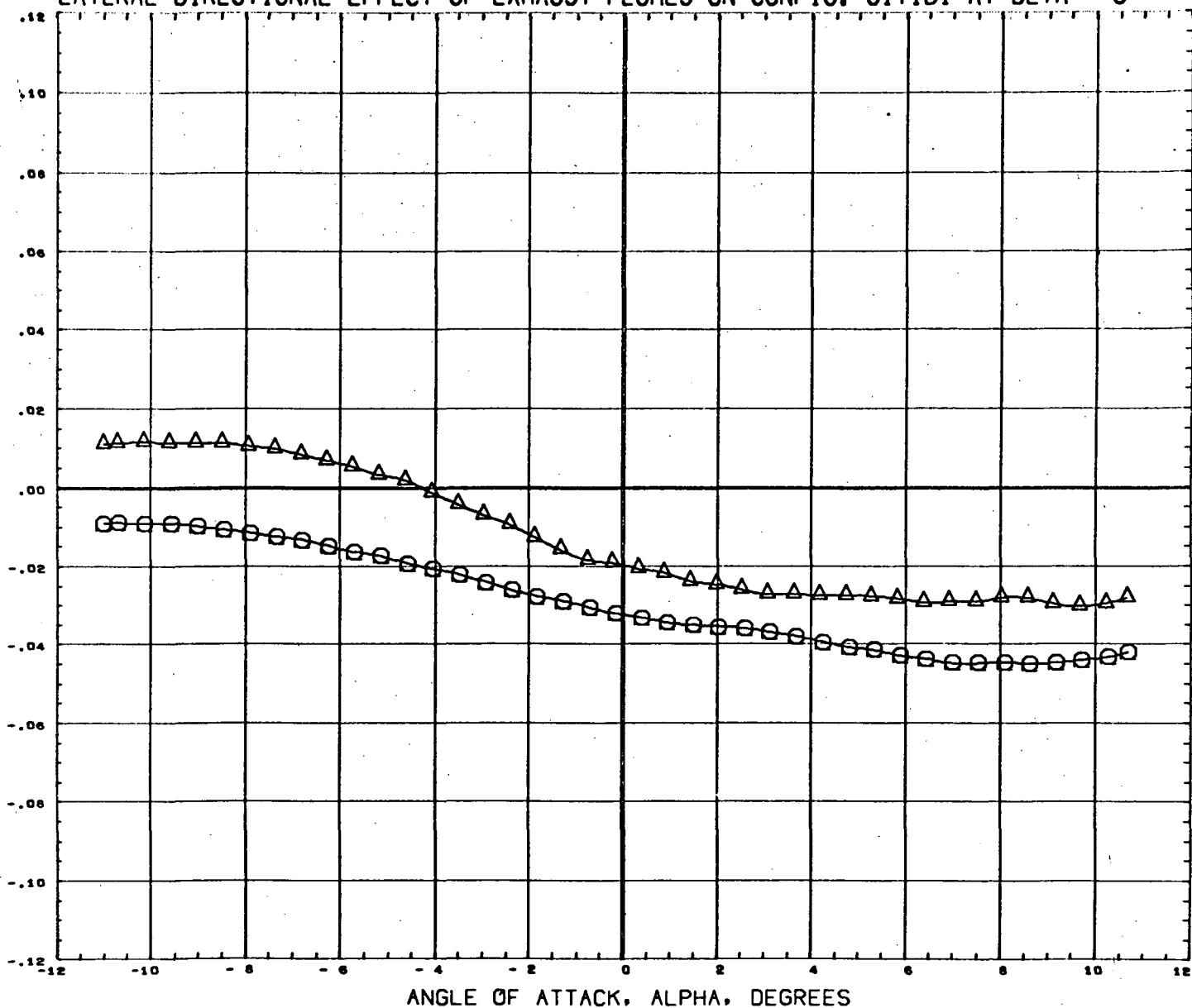
YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
(RD7503)	□	MDAC S-222 COMPOSITE (T-CG) O1T1B1	6.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7506)	△	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (2.5)	6.000	0.000	0.000	0.000	LREF	609.5004 IN.

LATERAL-DIRECTIONAL EFFECT OF EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 6

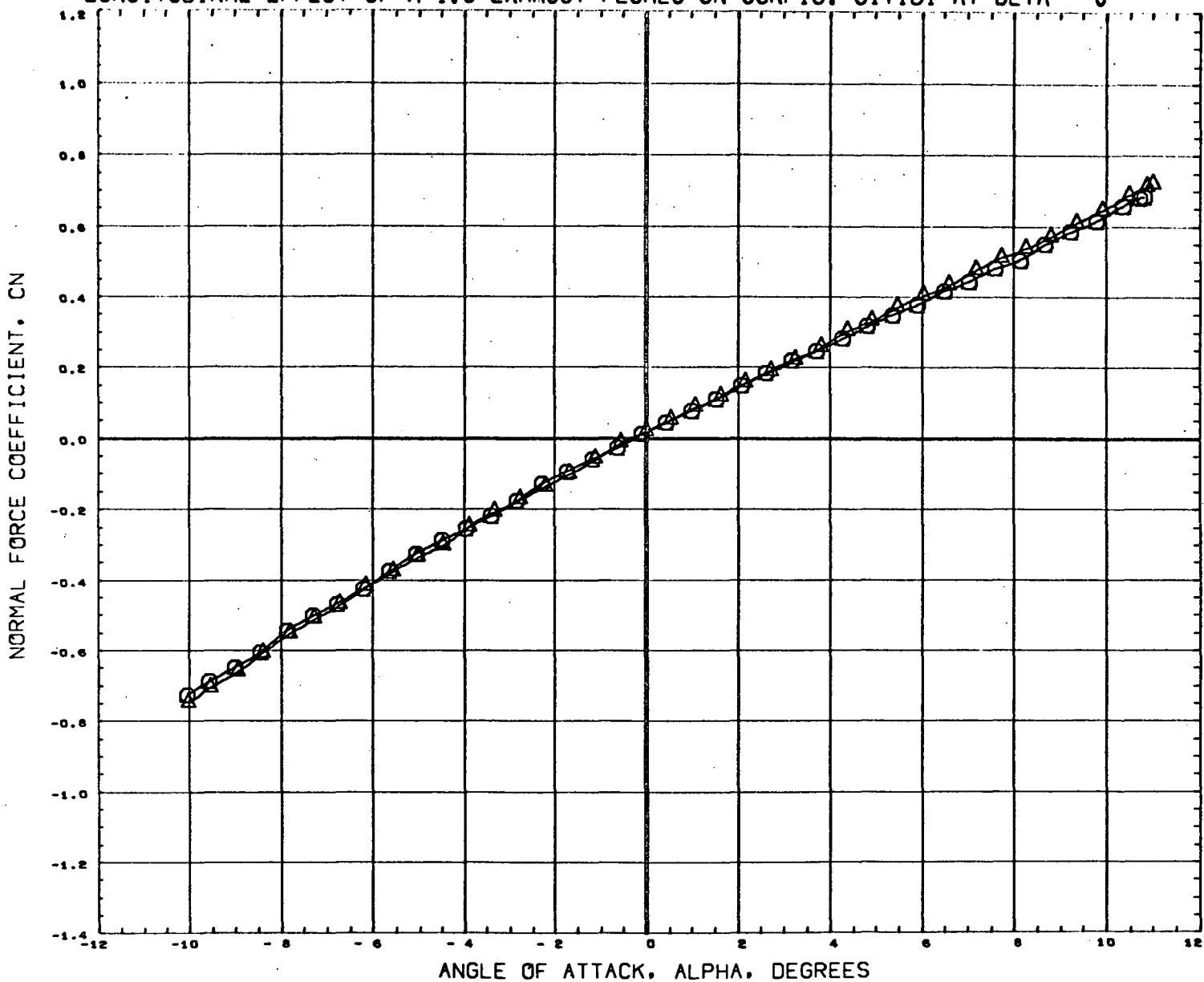
ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION		
(RD7508)	○	MDAC S-222 COMPOSITE (T-CG) O1T1B1	6.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(RD7508)	△	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (2.5)	6.000	0.000	0.000	0.000	LREF	609.5004	IN.

BREF 682.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

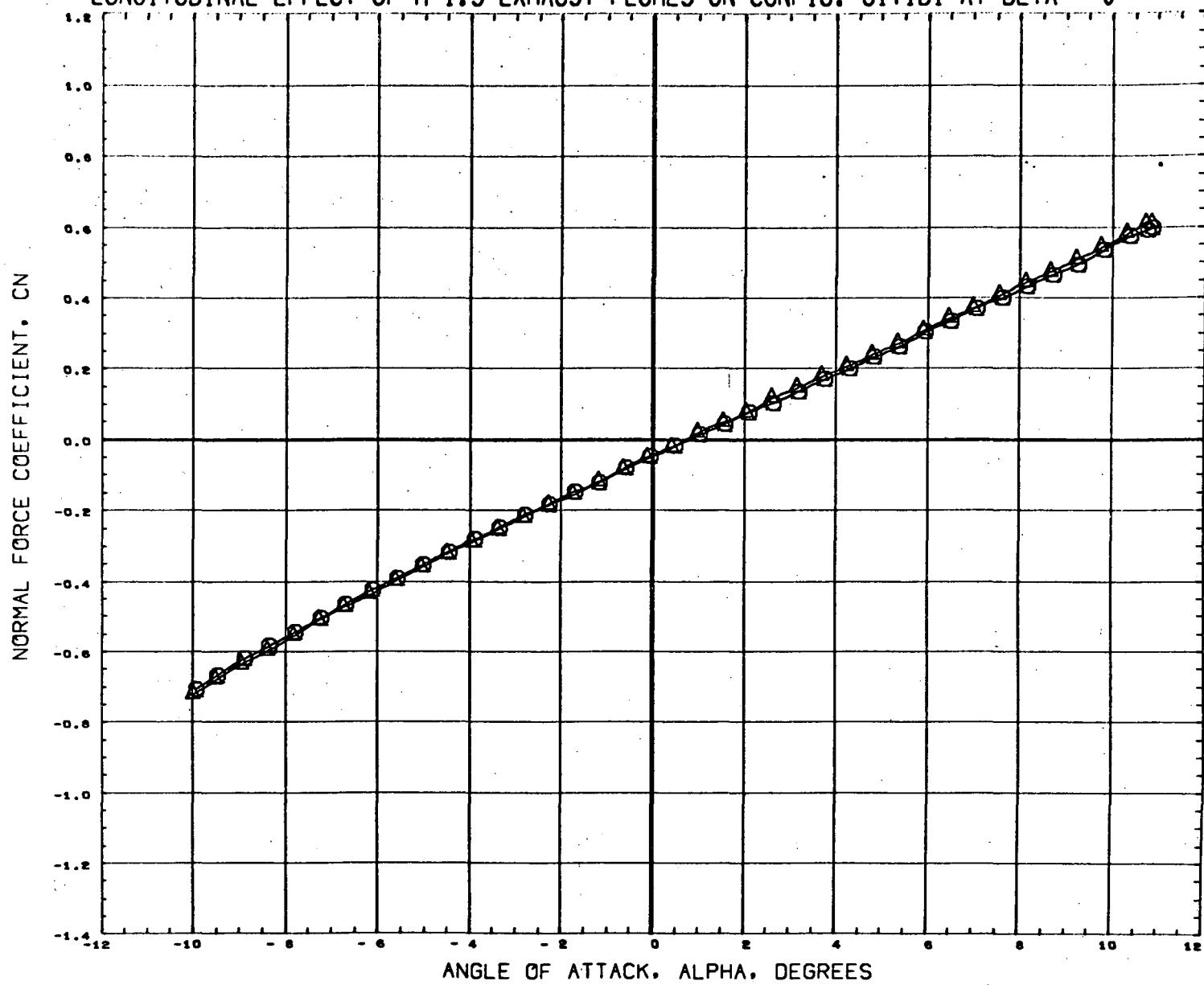


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7528)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7536)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
(CD7520)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7538)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

BREF 882.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

MACH

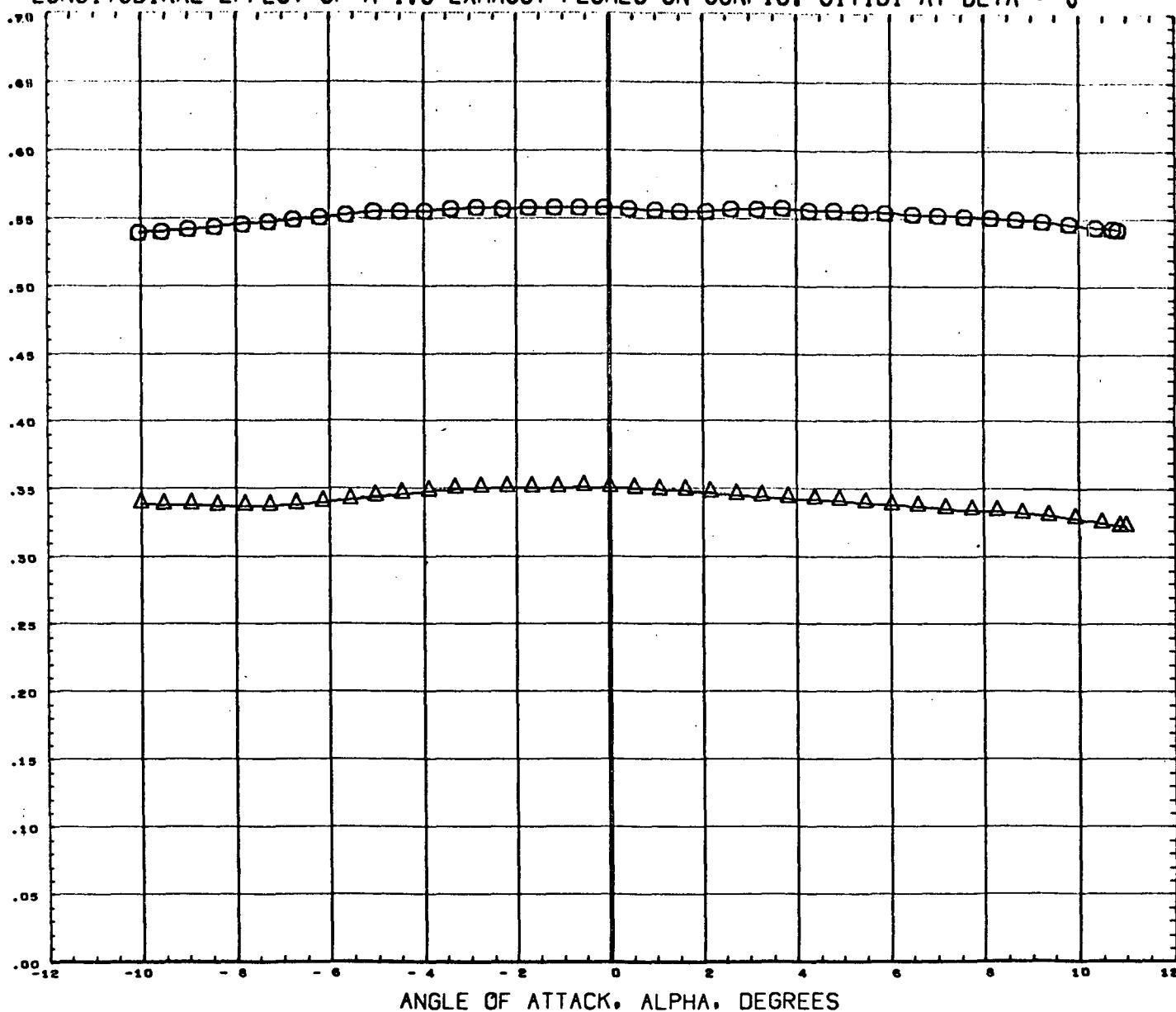
2.20

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

AXIAL FORCE COEFFICIENT, CA

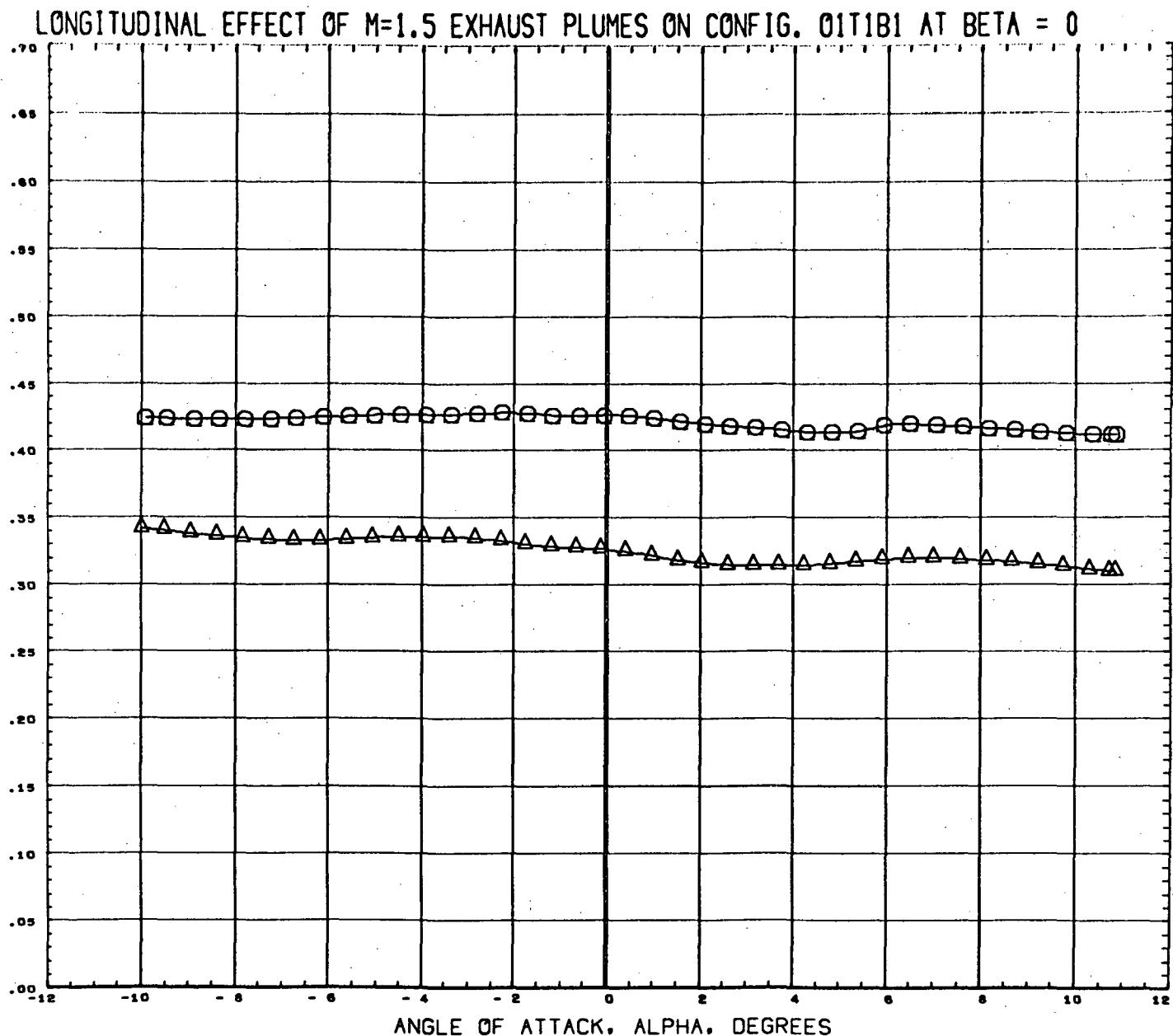


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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AXIAL FORCE COEFFICIENT, CA



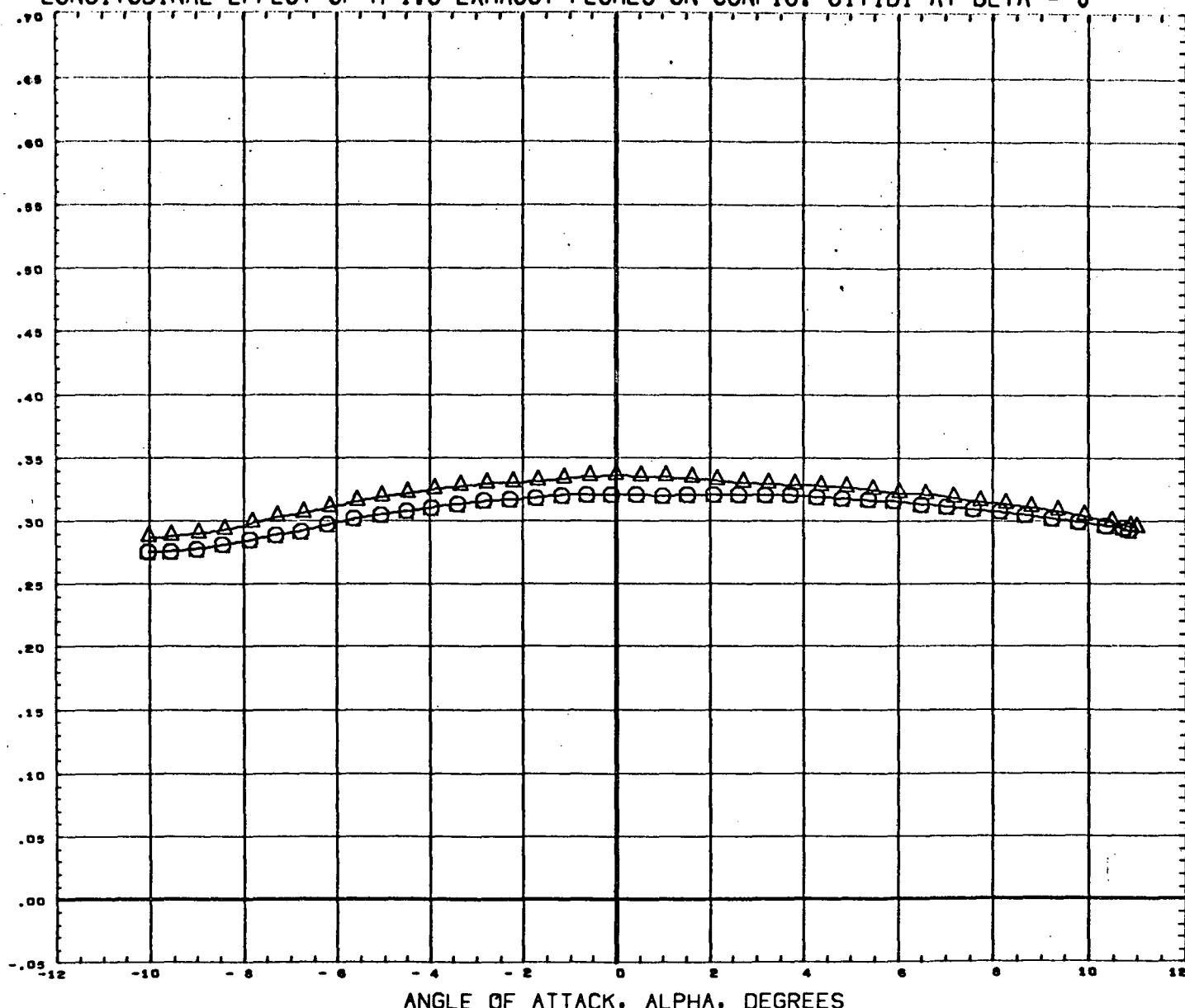
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
		0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
(CD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF.

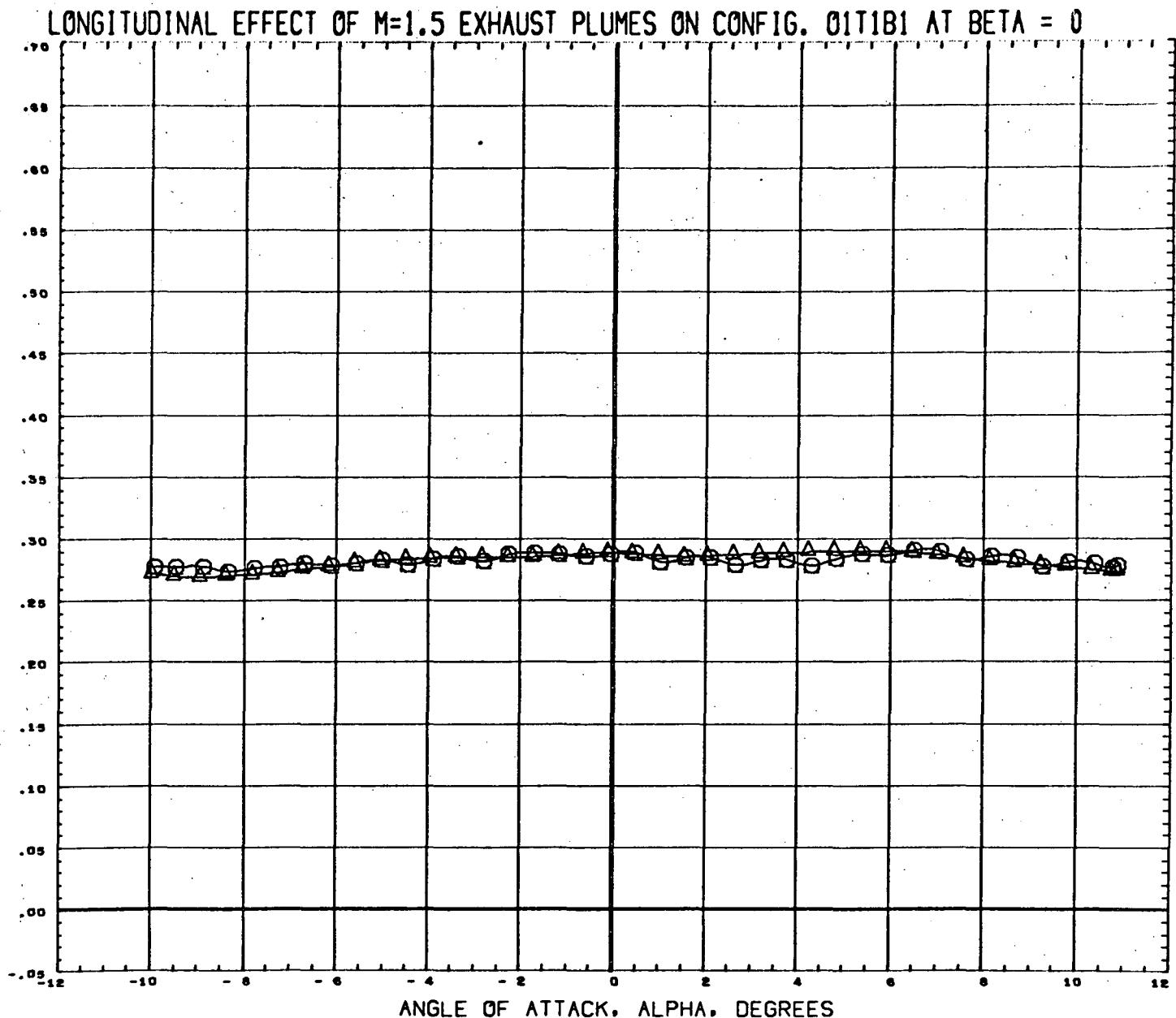


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7526)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7536)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 957.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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FOREBODY AXIAL FORCE COEFFICIENT. CAF



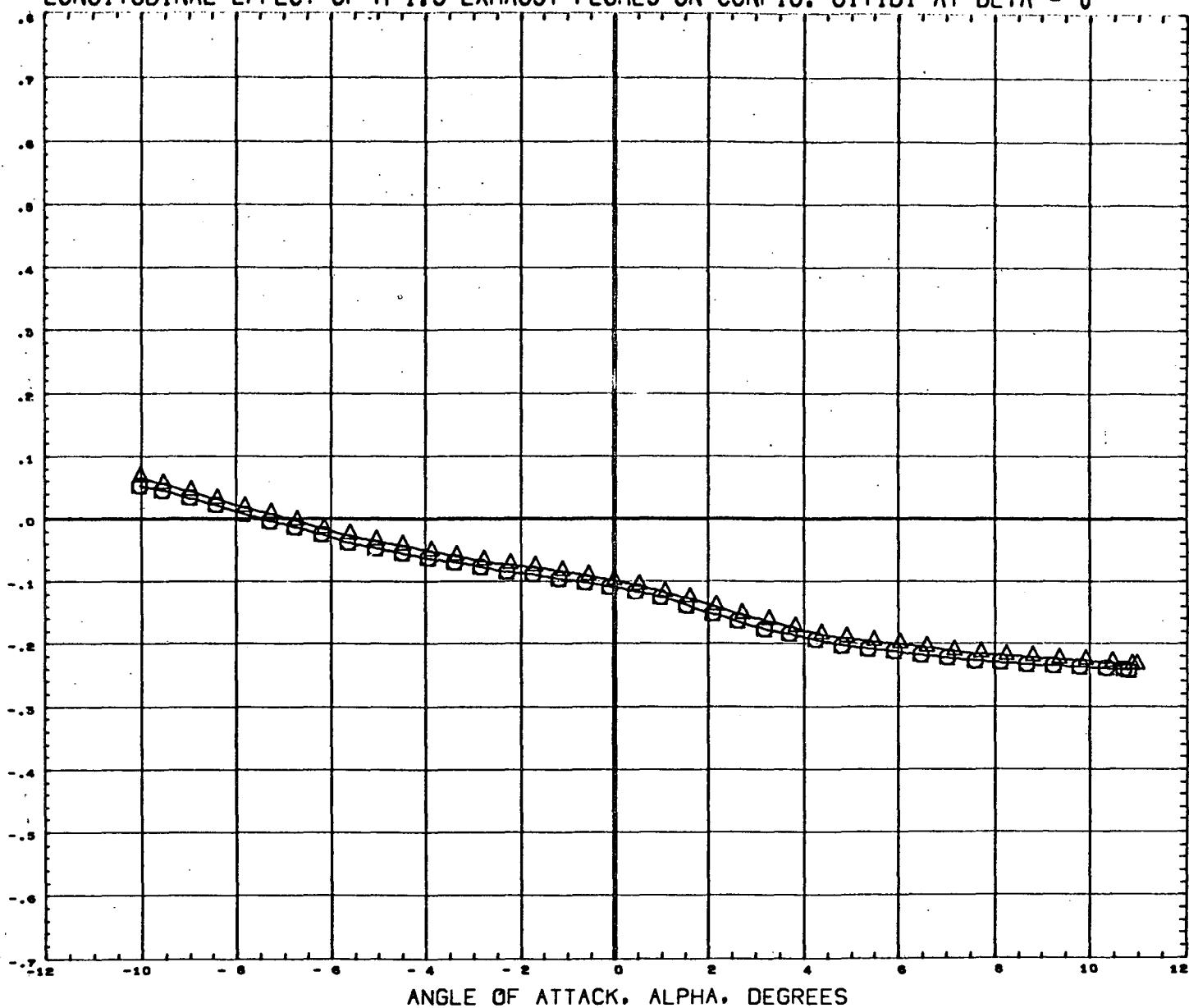
DATA SET SYMBOL		CONFIGURATION DESCRIPTION			BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION		
(CD7528)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1			0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(CD7538)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)			0.000	0.000	0.000	0.000	LREF	609.5004	IN.
									BREF	862.0004	IN.
									XMRP	557.0004	IN.
									YMRP	0.0000	IN.
									ZMRP	200.0004	IN.
									SCALE	0.0000	

MACH 2.20

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

PITCHING MOMENT COEFFICIENT, CLM



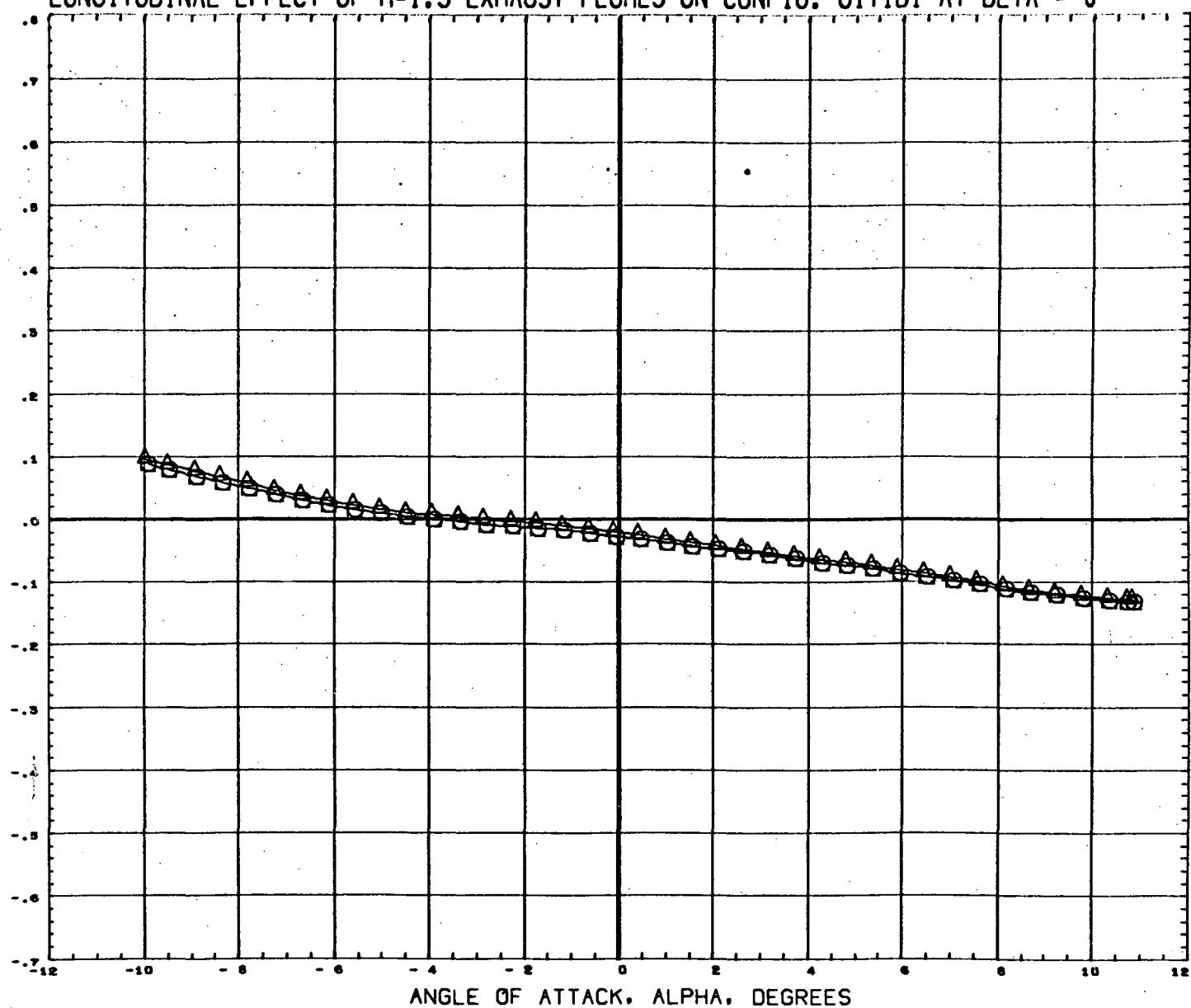
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7528) Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 862.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

PITCHING MOMENT COEFFICIENT, CLM

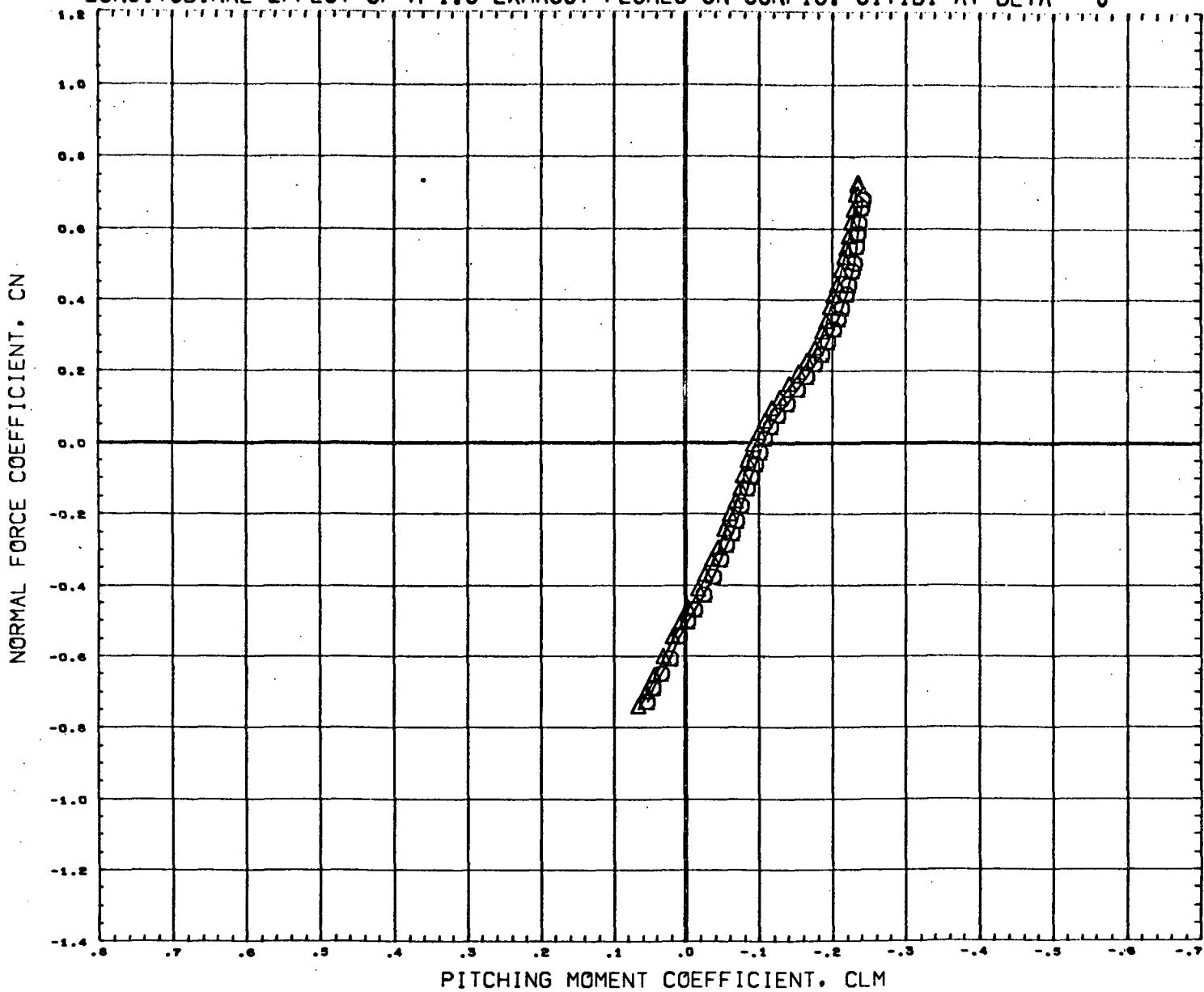


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7528)	○	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7538)	△	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

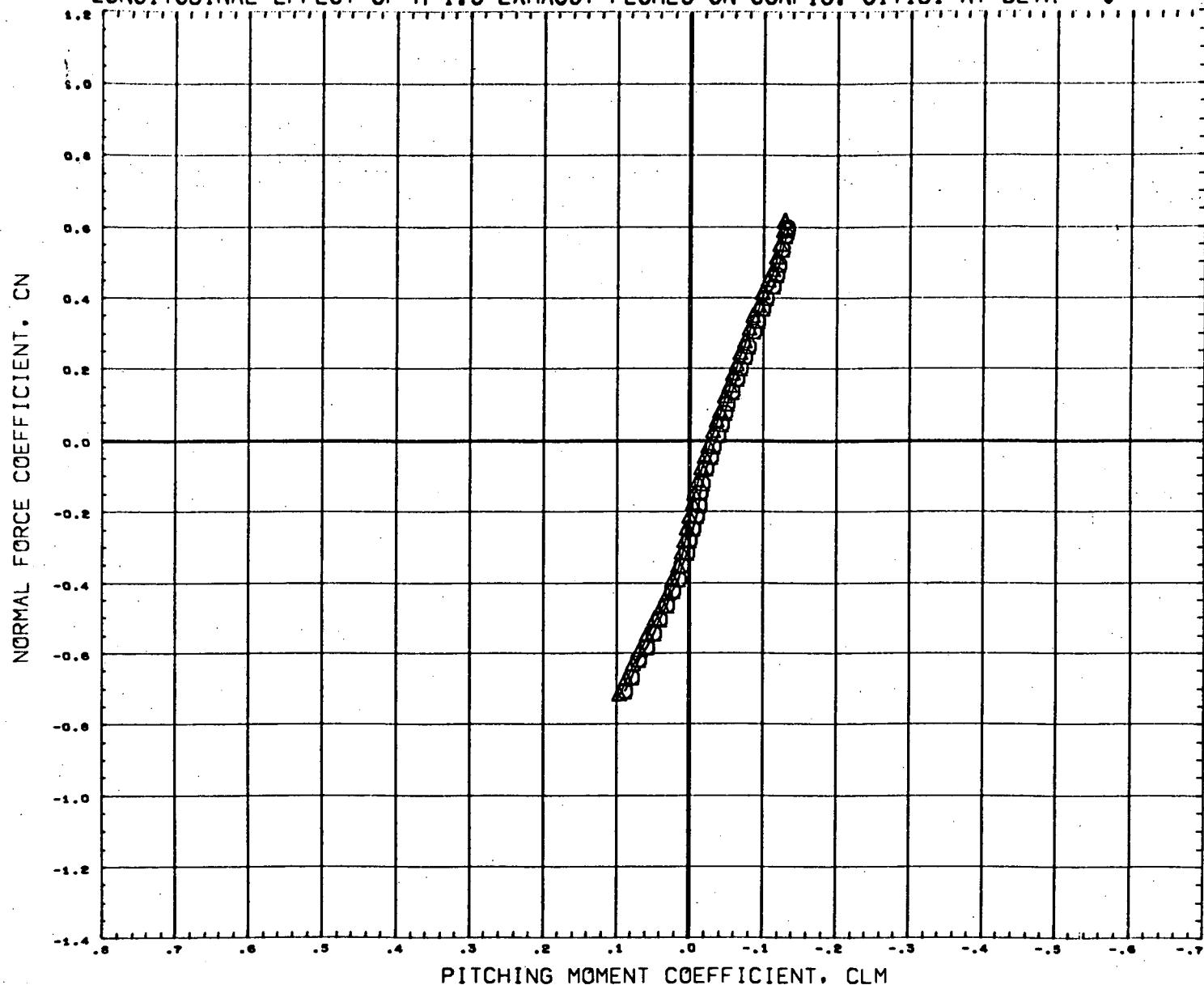


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(CD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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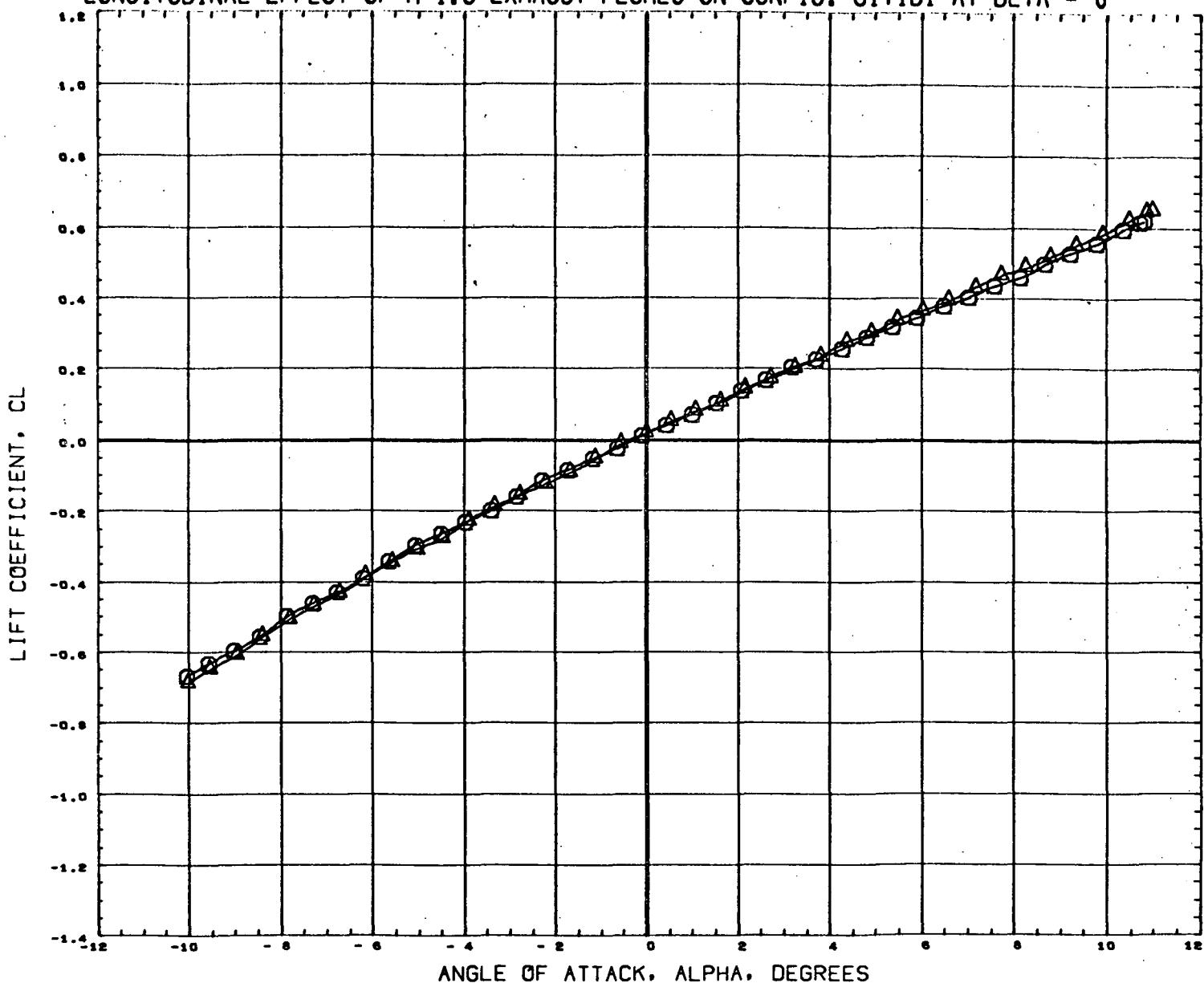
LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.

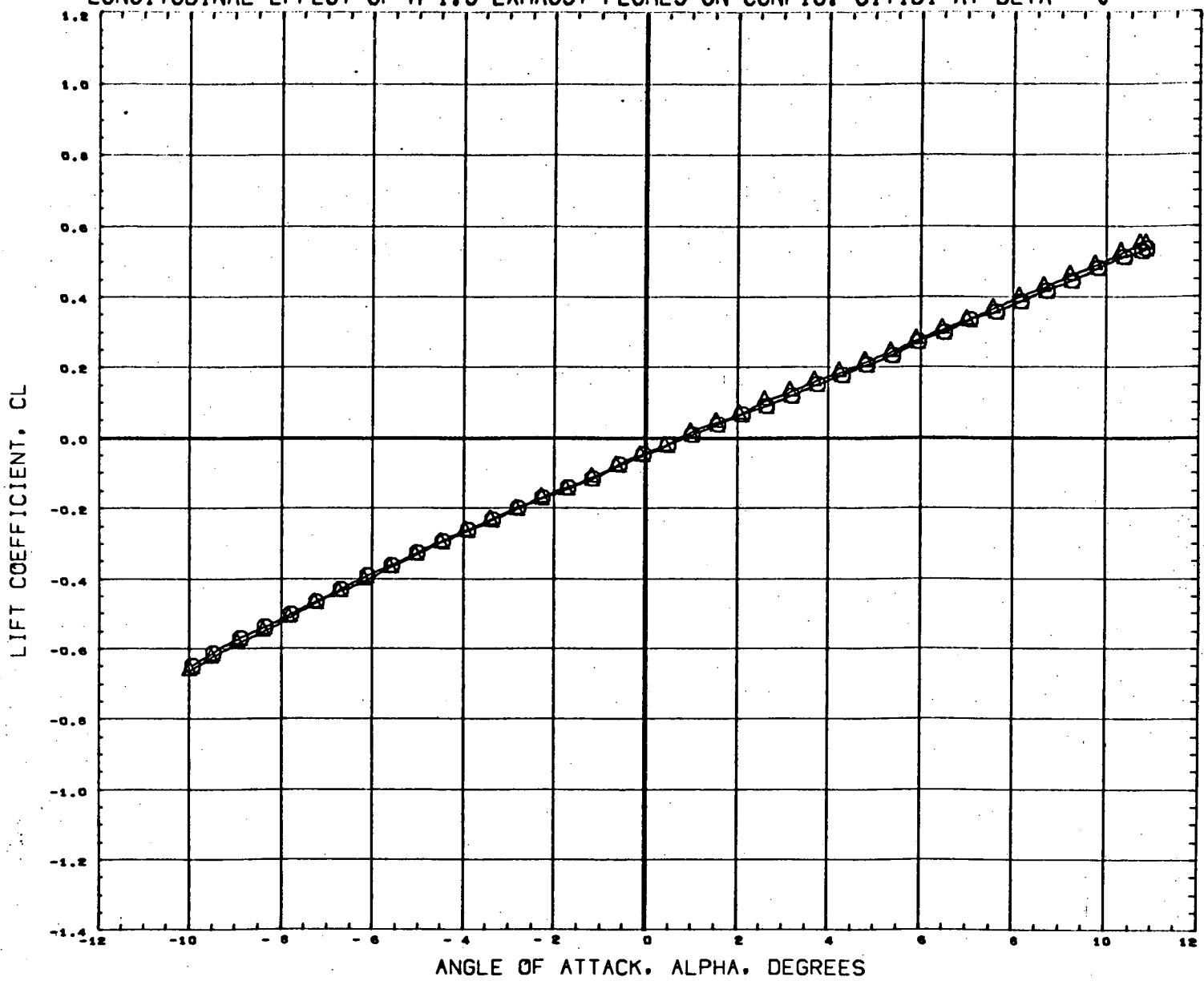
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7526)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7536)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XHRP 557.0004 IN.
						YHRP 0.0000 IN.
						ZHRP 200.0004 IN.
						SCALE 0.0060

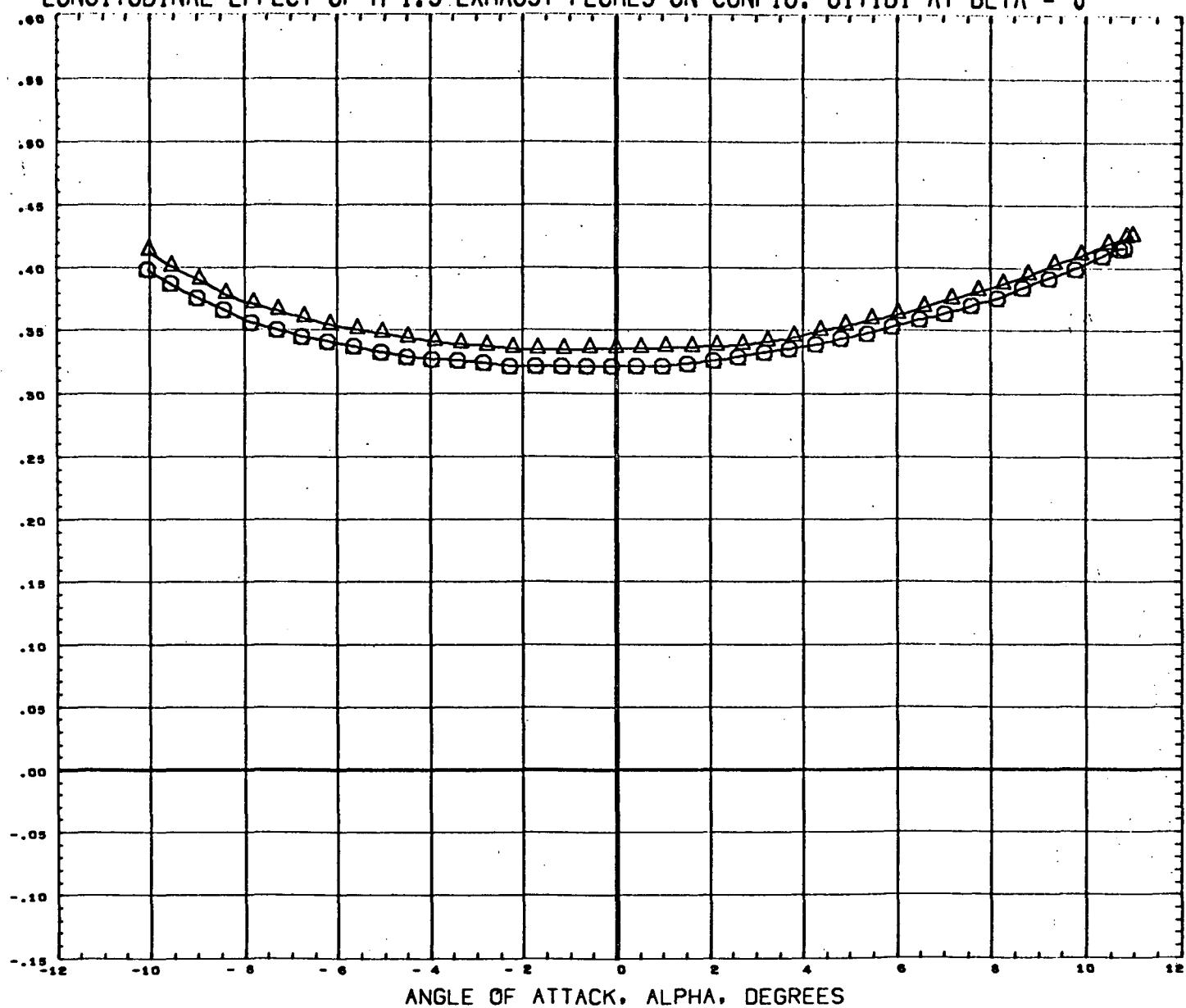
LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7528)	○	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7538)	△	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
							BREF 662.0004 IN.
							XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

FOREBODY DRAG COEFFICIENT. CDF



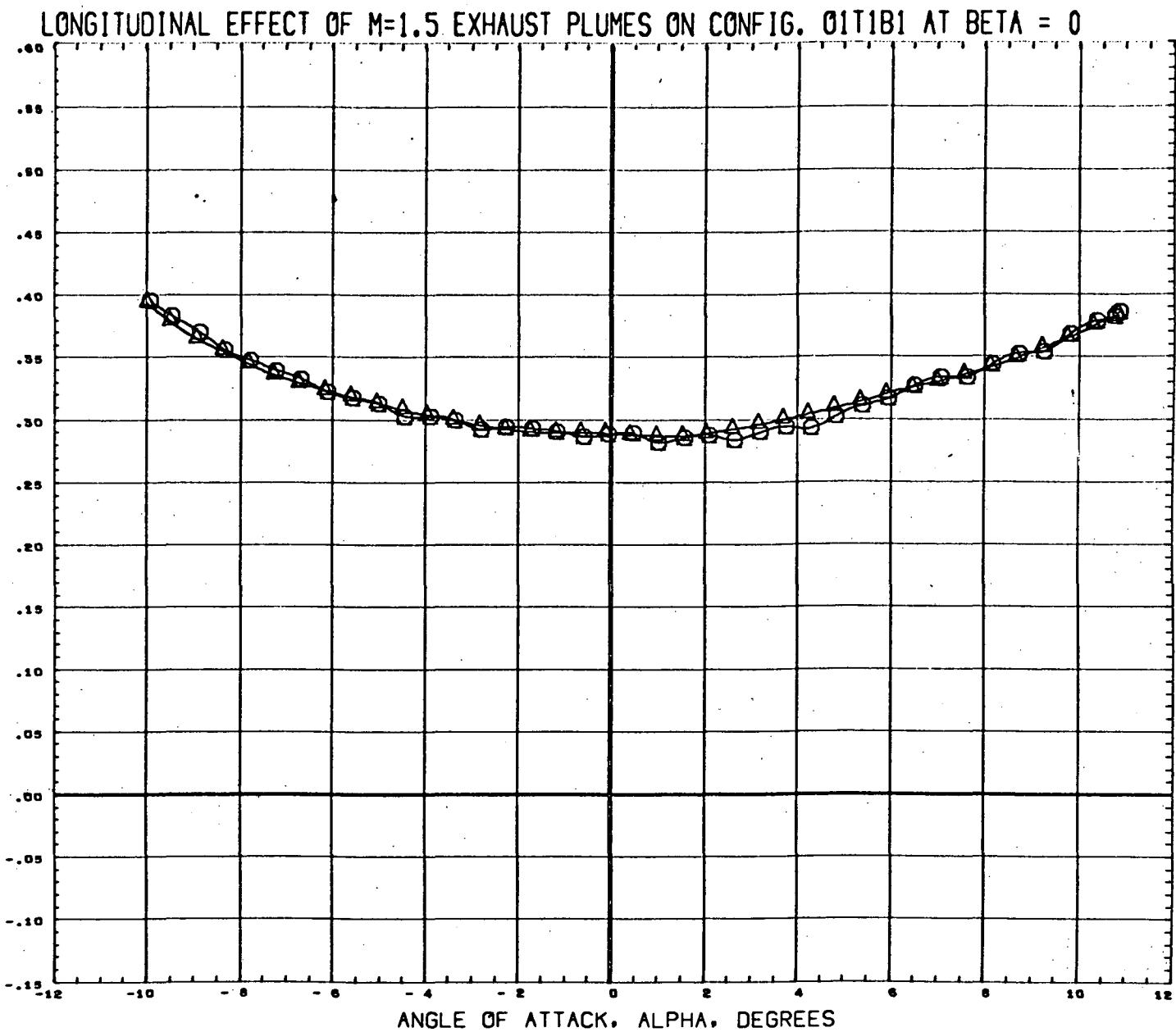
ANGLE OF ATTACK. ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	LREF
(CD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	3155.3040	SQ.FT.
(CD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	609.5004	IN.
						BREF	682.0004
						XMRP	557.0004
						YMRP	0.0000
						ZMRP	200.0004
						SCALE	0.0060

MACH 1.51

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FOREBODY DRAG COEFFICIENT. CDF



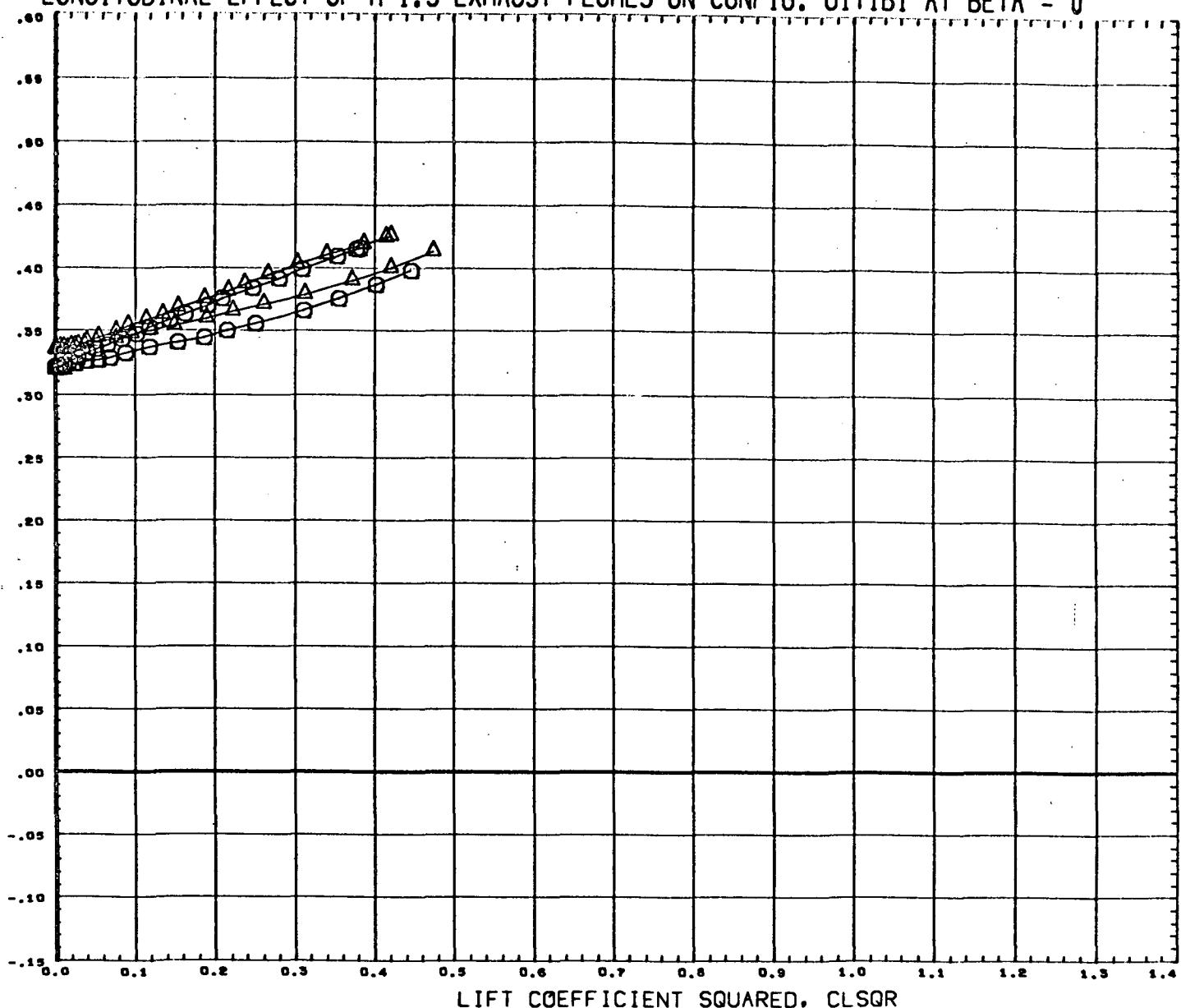
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION	
(CD7528)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7538)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
							BREF	682.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

FOREBODY DRAG COEFFICIENT. CDF

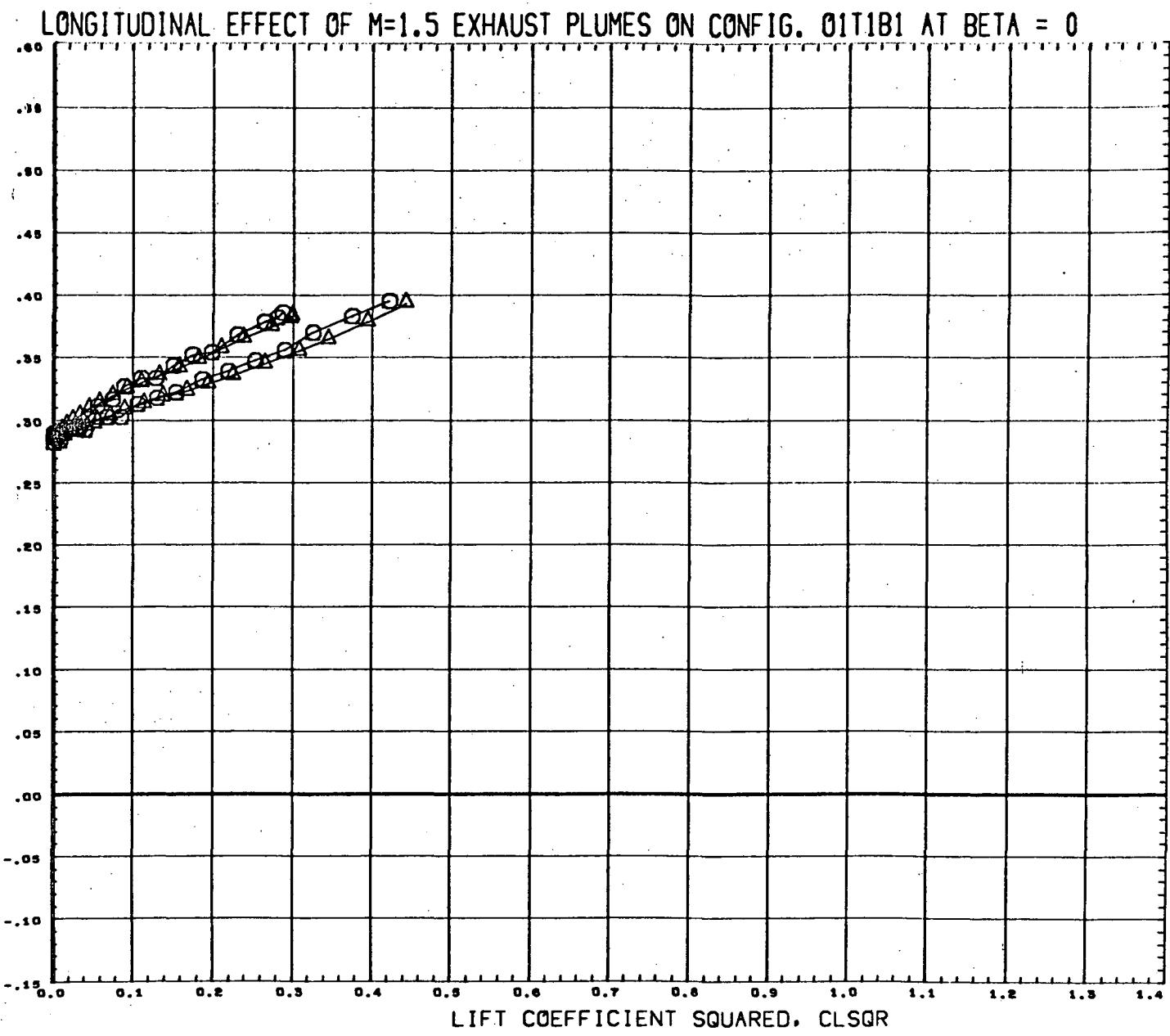


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(CD7528)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3195.3040 SQ.FT.
(CD7538)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH 1.51

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FOREBODY DRAG COEFFICIENT. CDF



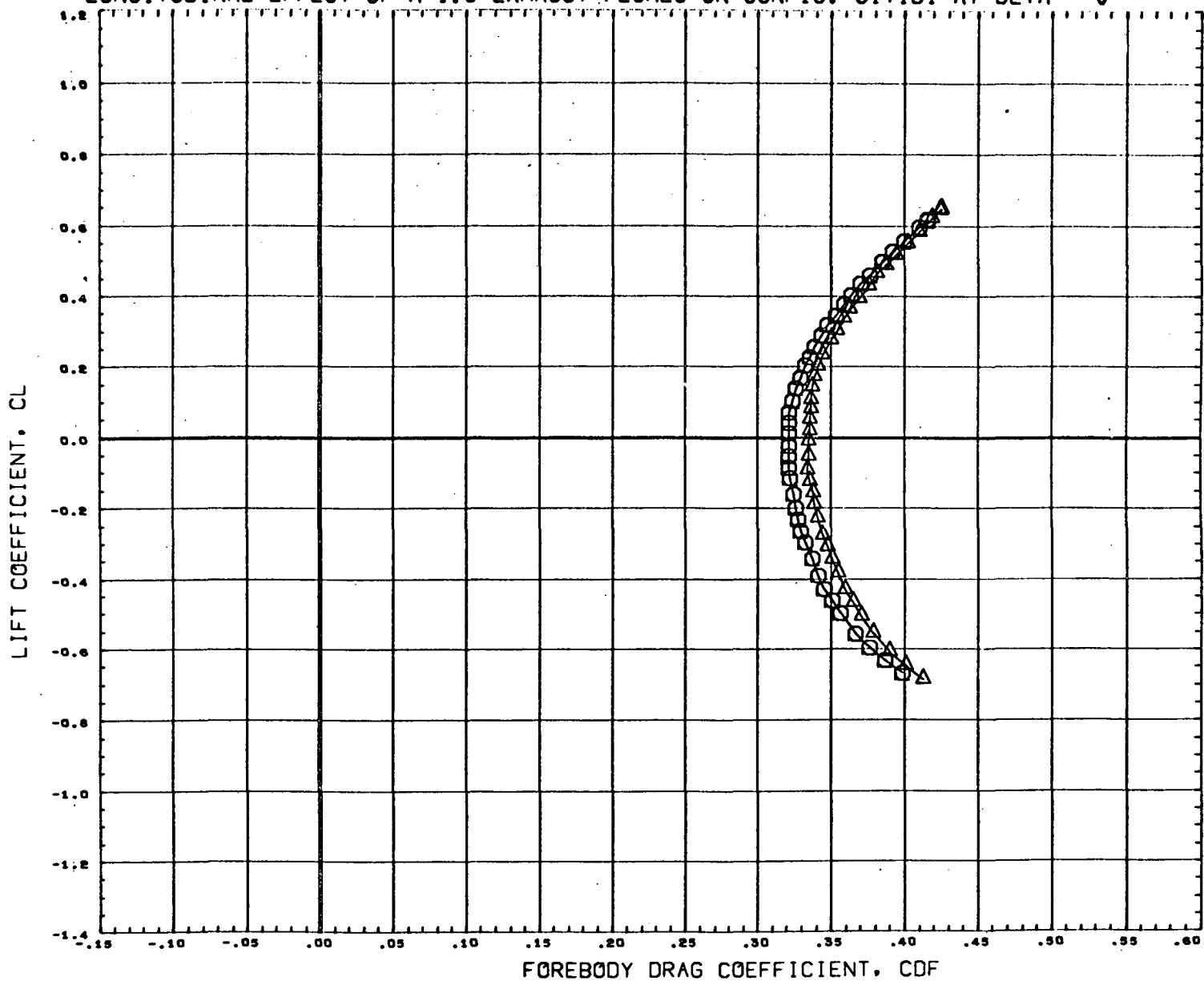
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7528) 8 MDAC S-222 COMPOSITE(T-CG) O1T1B1
 (CD7536) 8 MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)

BETA	ELEVTR	AIRRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 682.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

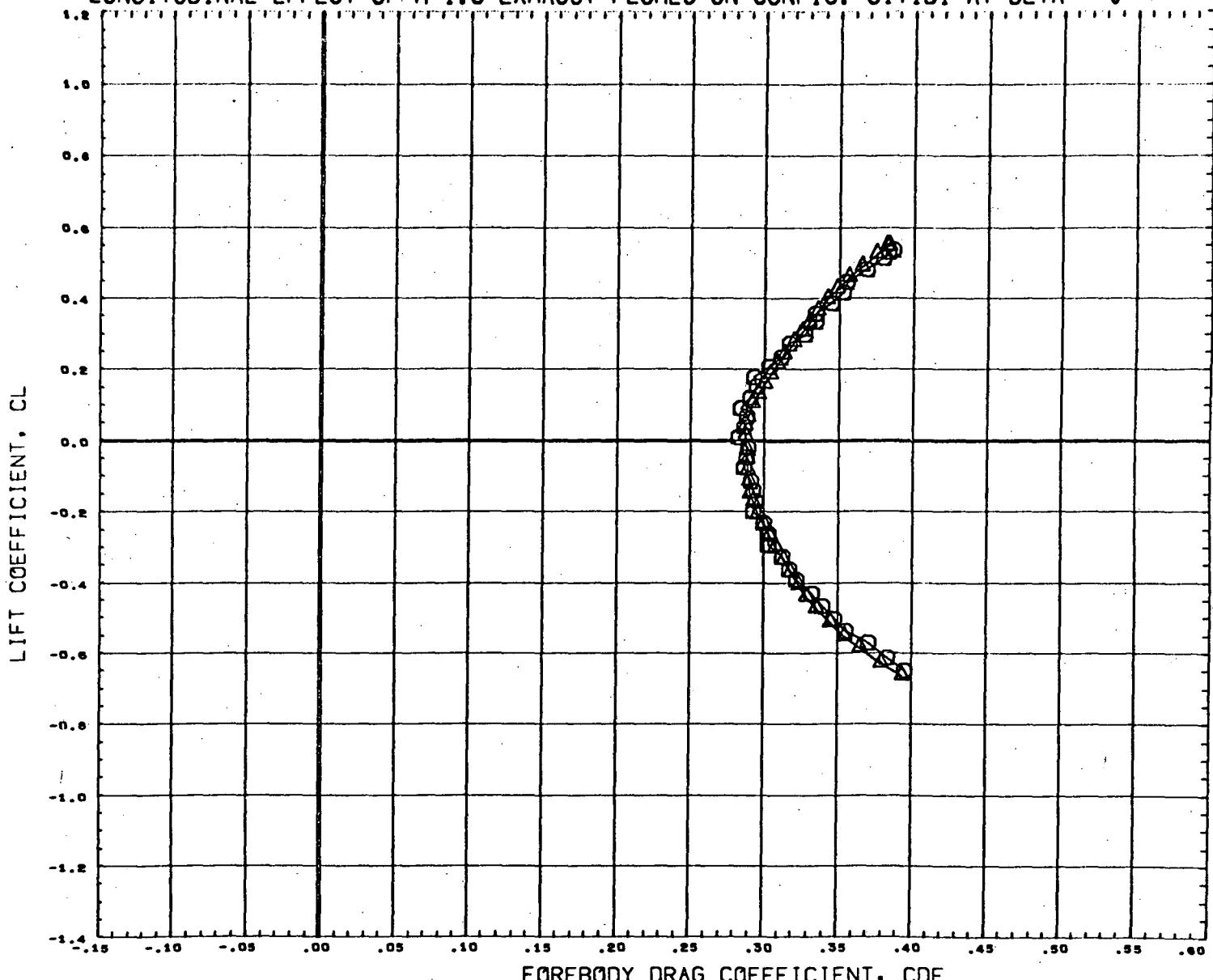


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7528)	○	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7538)	△	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.

MACH 1.51

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

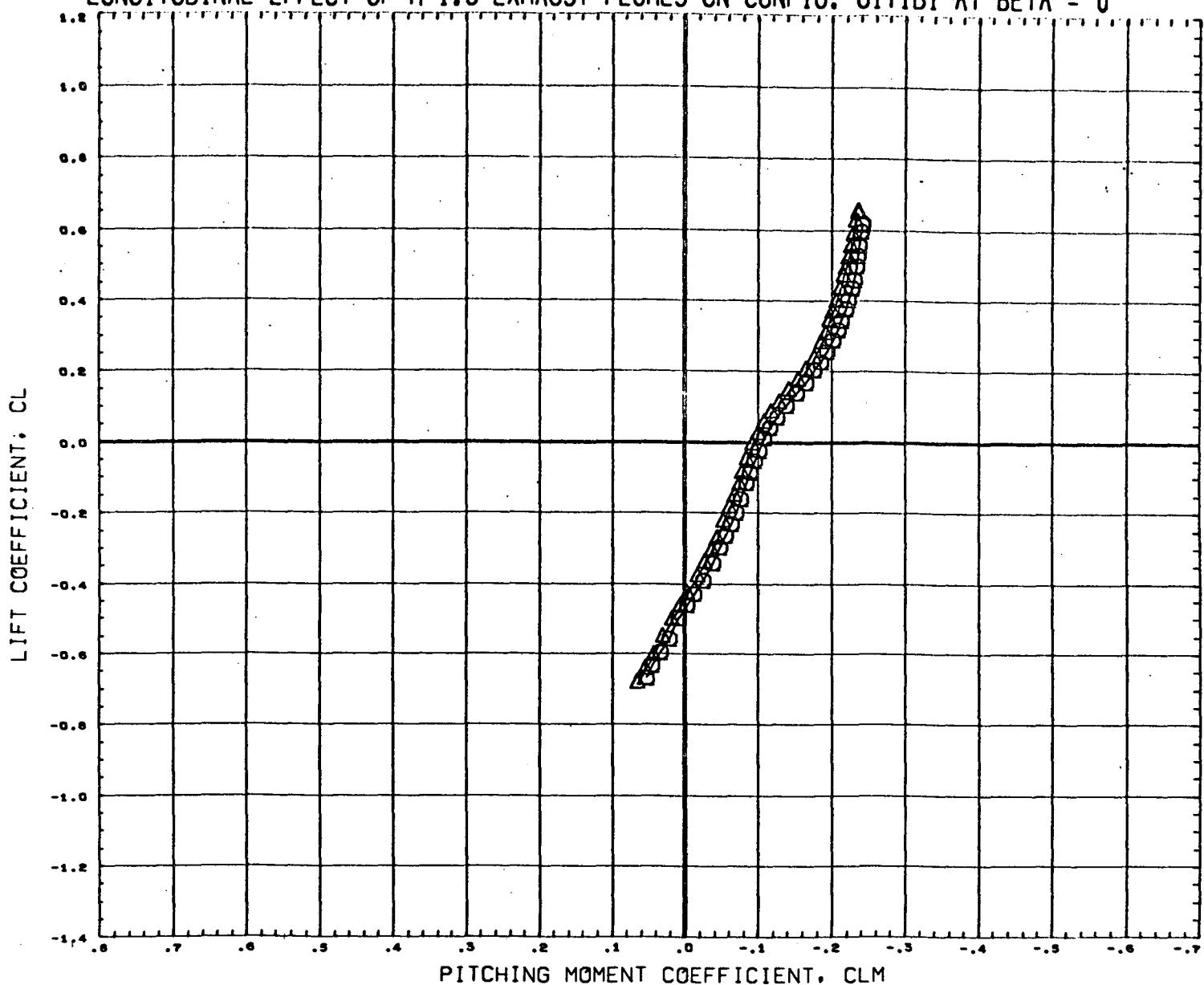


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7528)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7538)	W	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

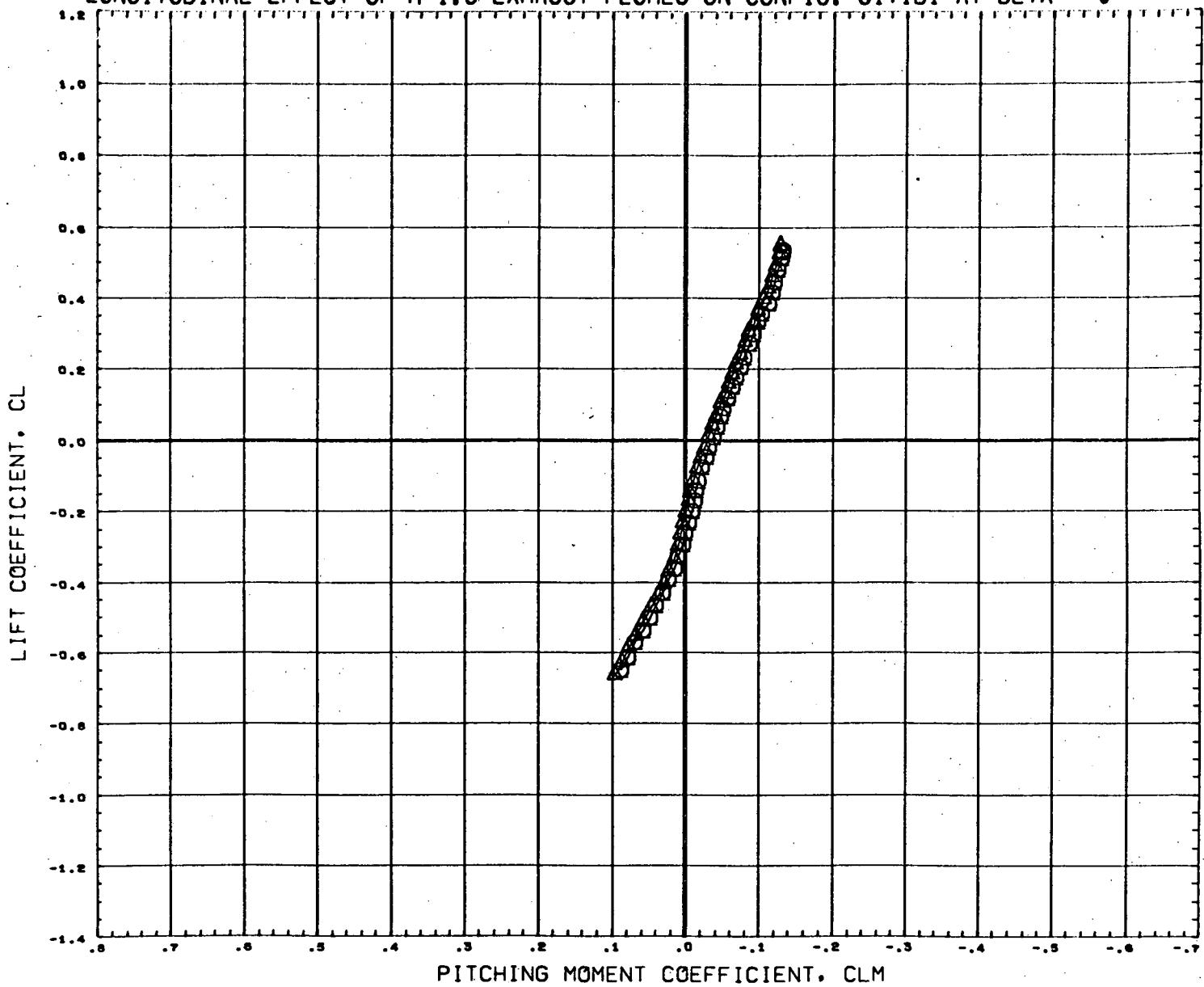


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(CD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
						BREF	682.0004 IN.
						XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT BETA = 0

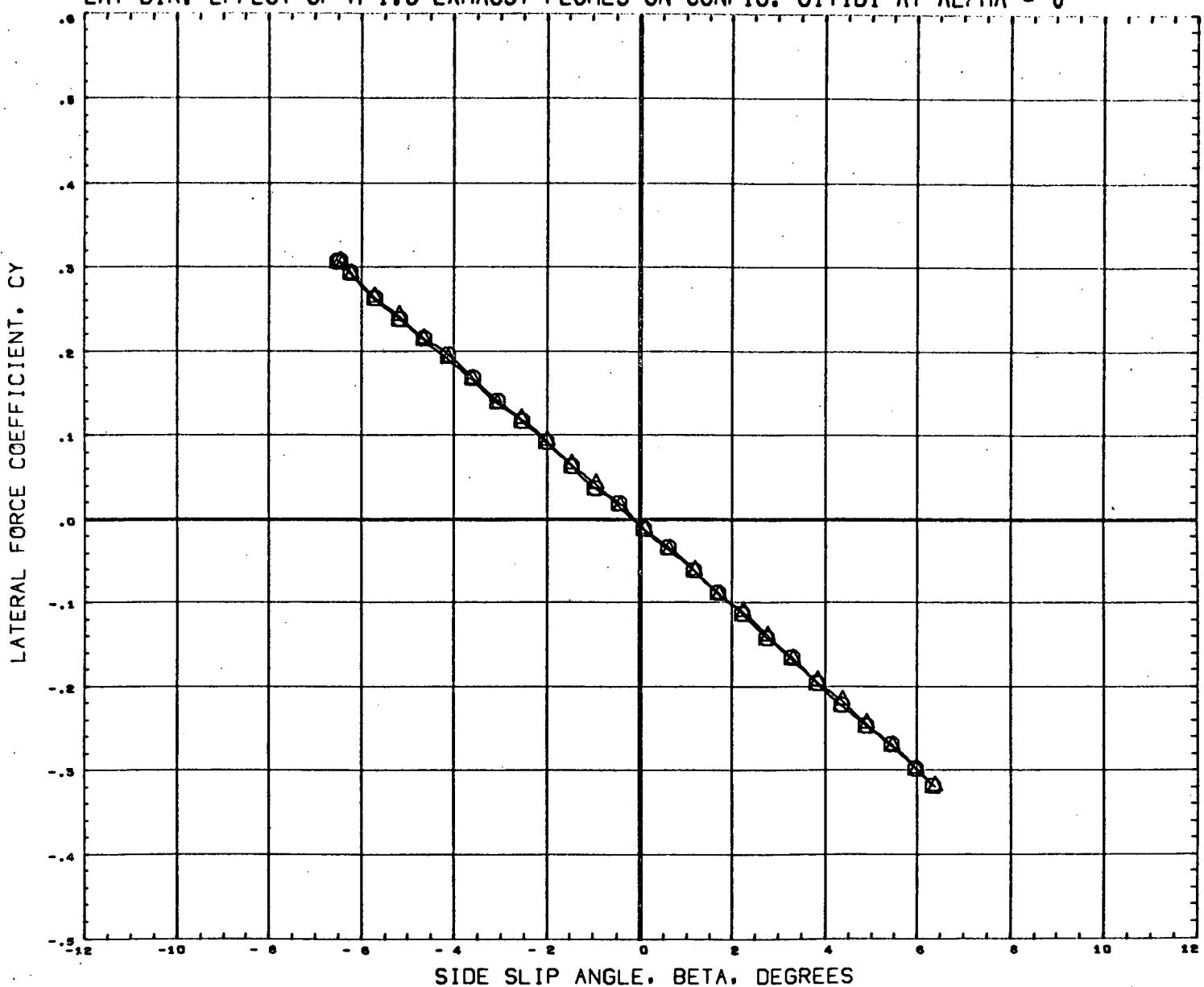


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
(CD7528)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7538)	A	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
							BREF	662.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 2.20

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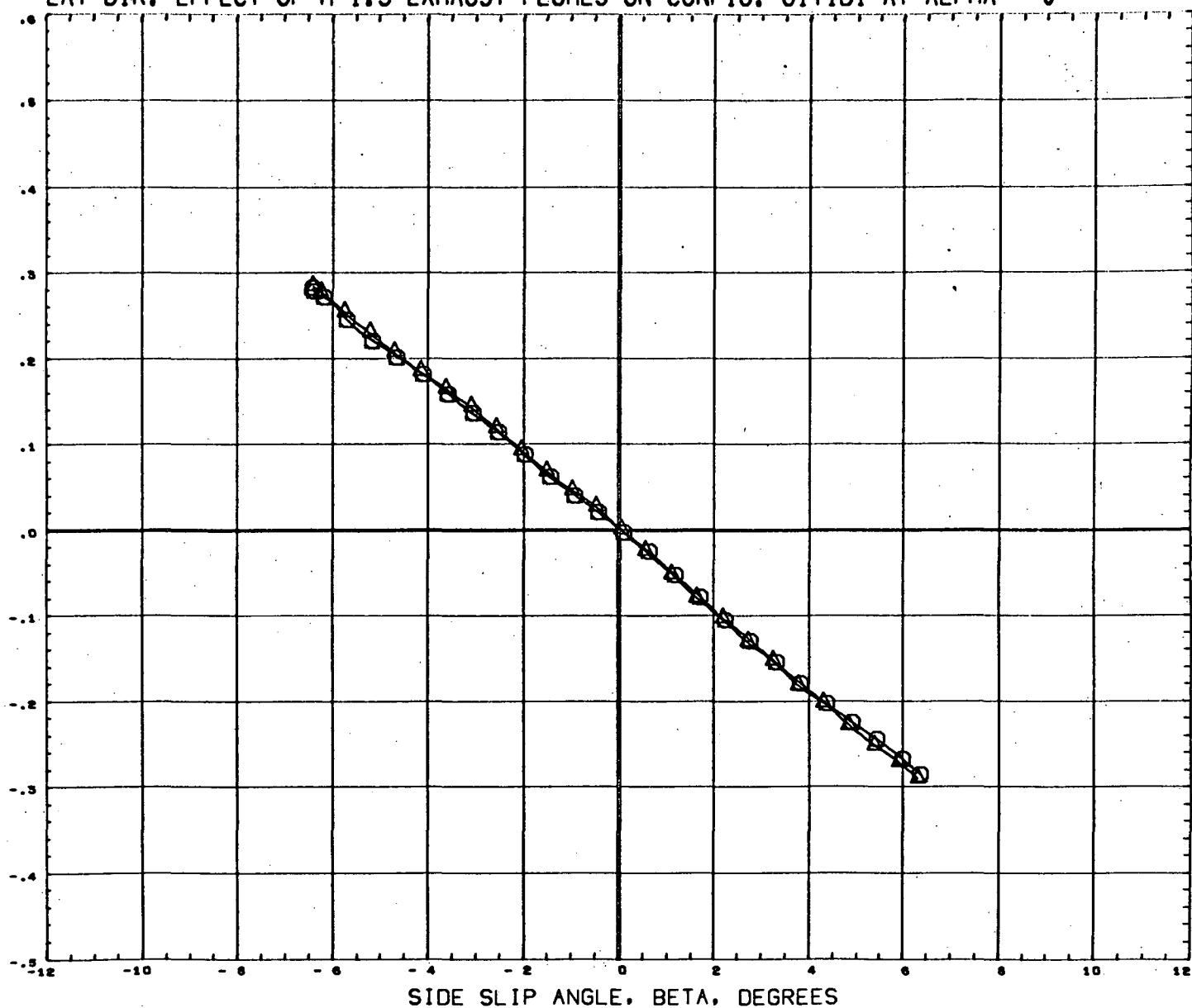
LAT-DIR. EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
						SREF	3135.3040	SQ.FT.
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3135.3040	SQ.FT.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
						BREF	882.0004	IN.
						XMRP	557.0004	IN.
						YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

LAT-DIR. EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT ALPHA = 0

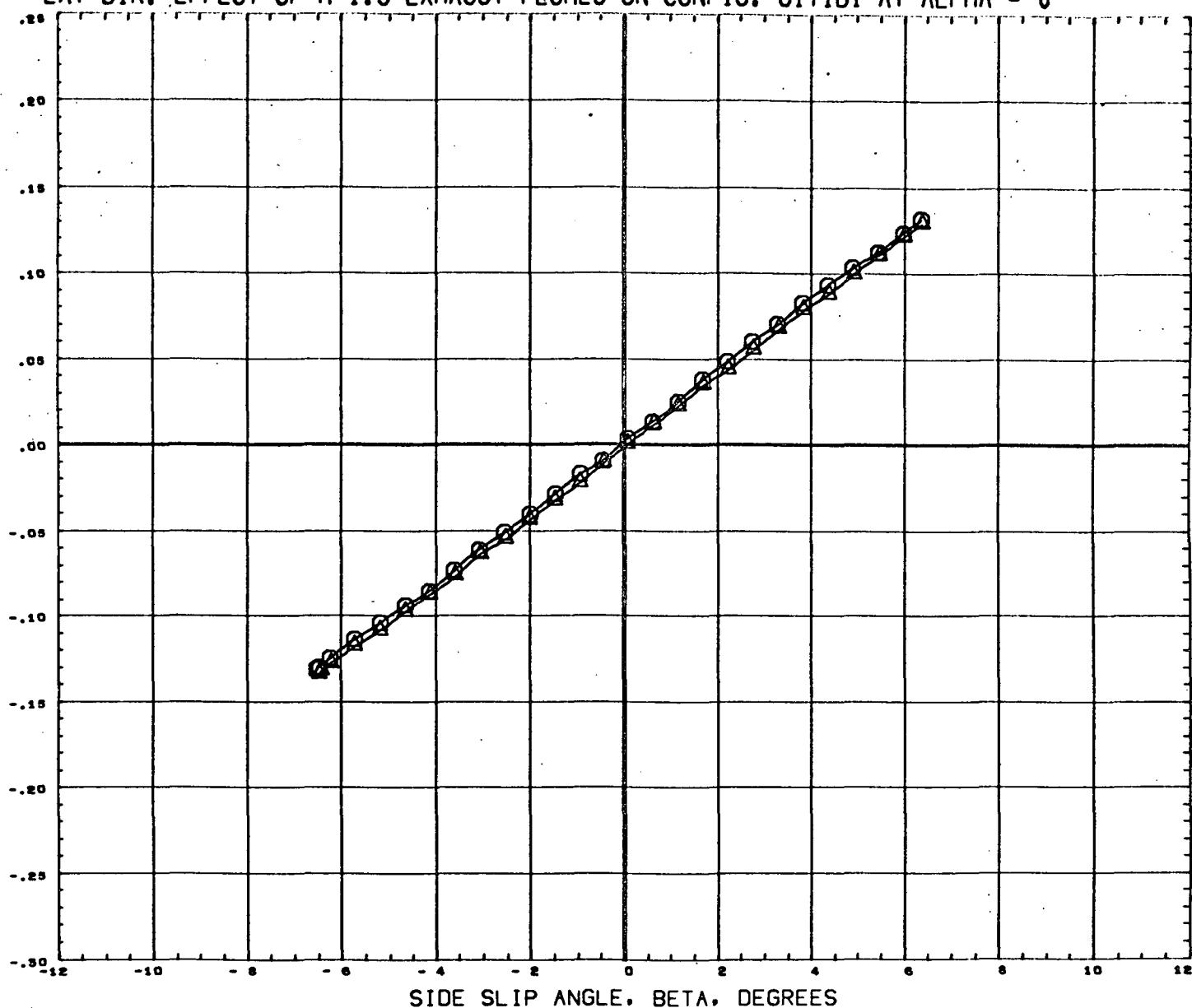
LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
(RD7529)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7539)	A	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.

LAT-DIR. EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT ALPHA = 0

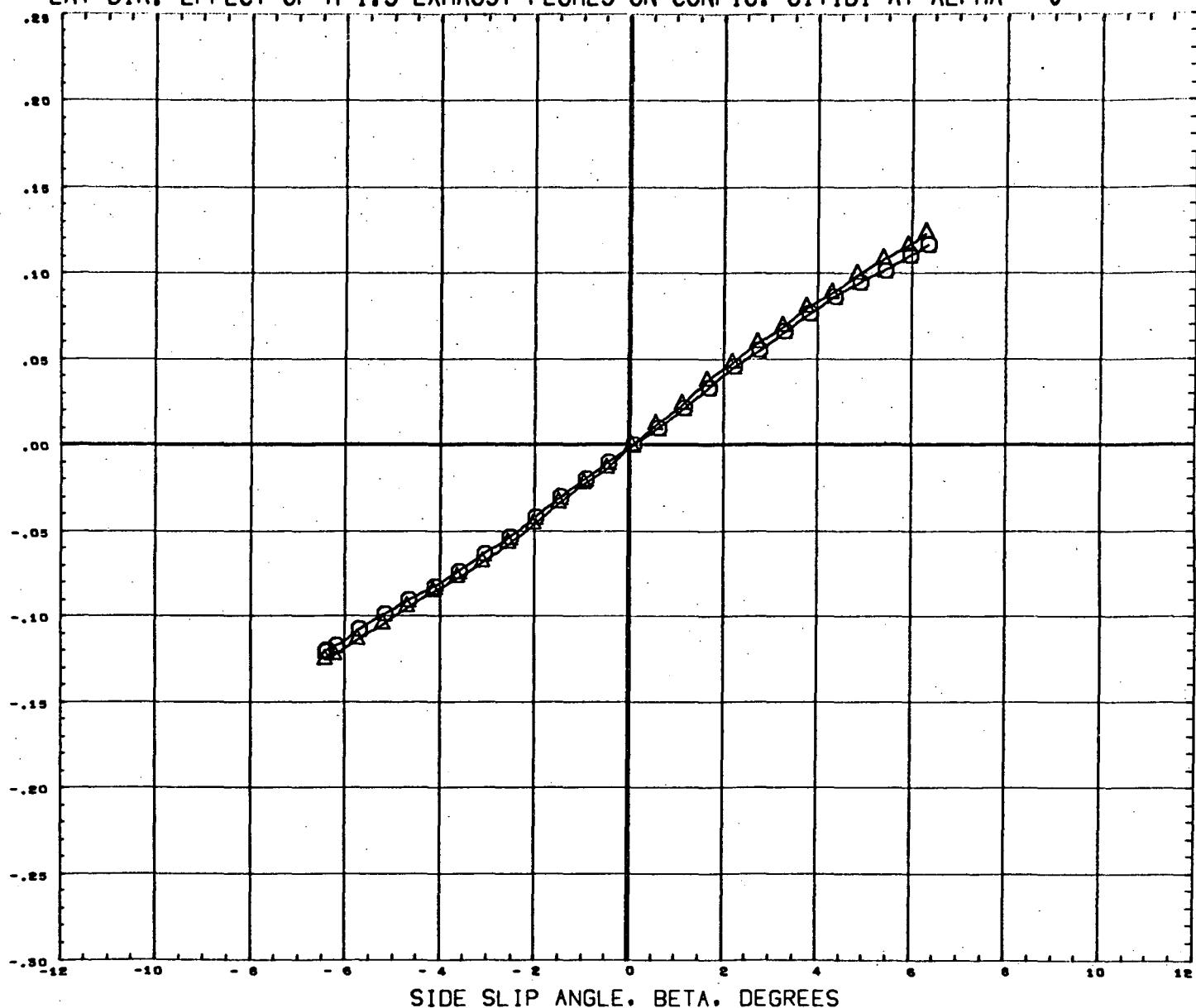
YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7529)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7539)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 862.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

LAT-DIR. EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



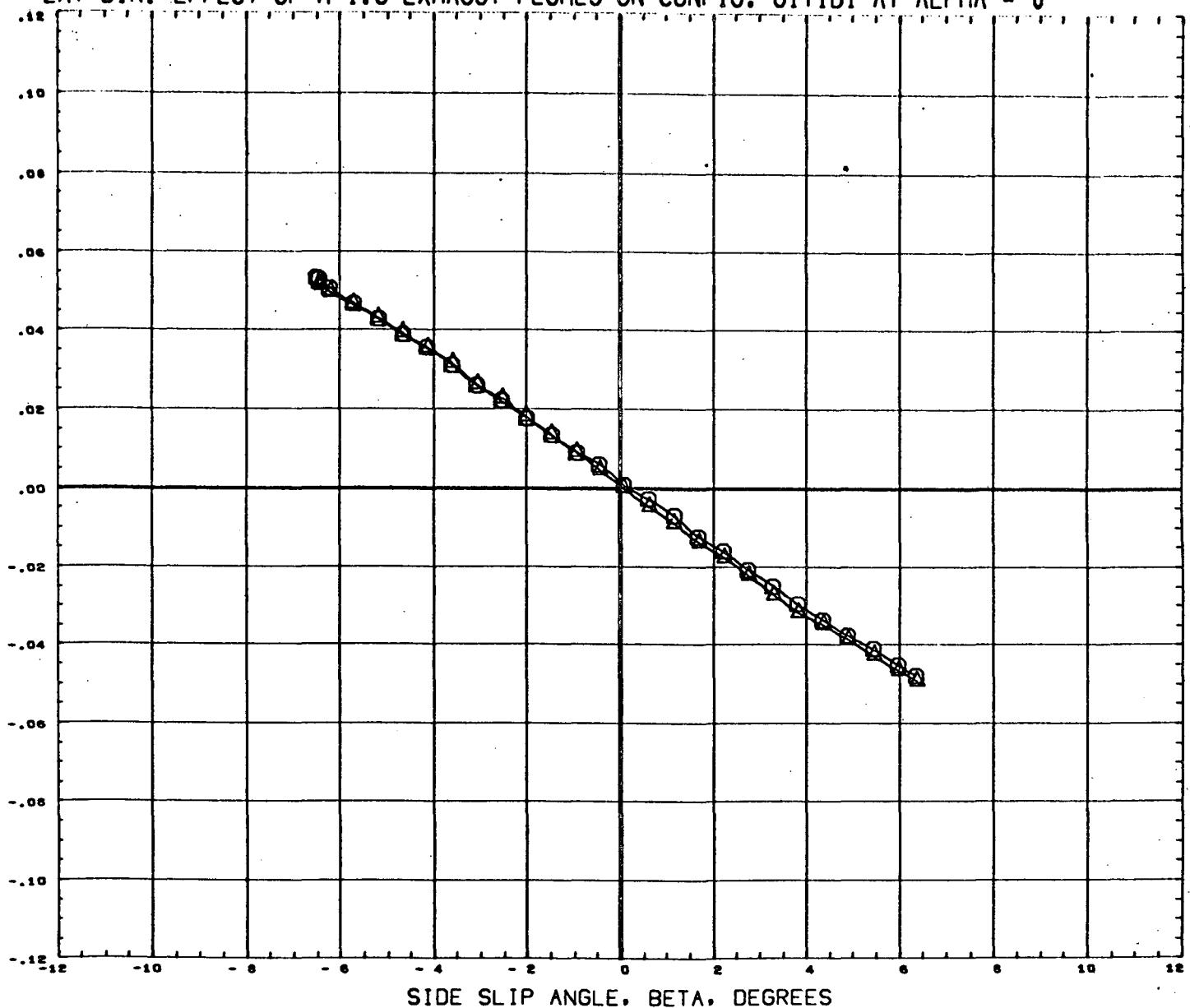
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(RD7529)	○	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3043 SQ.FT.
(RD7539)	△	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.3004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LAT-DIR. EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



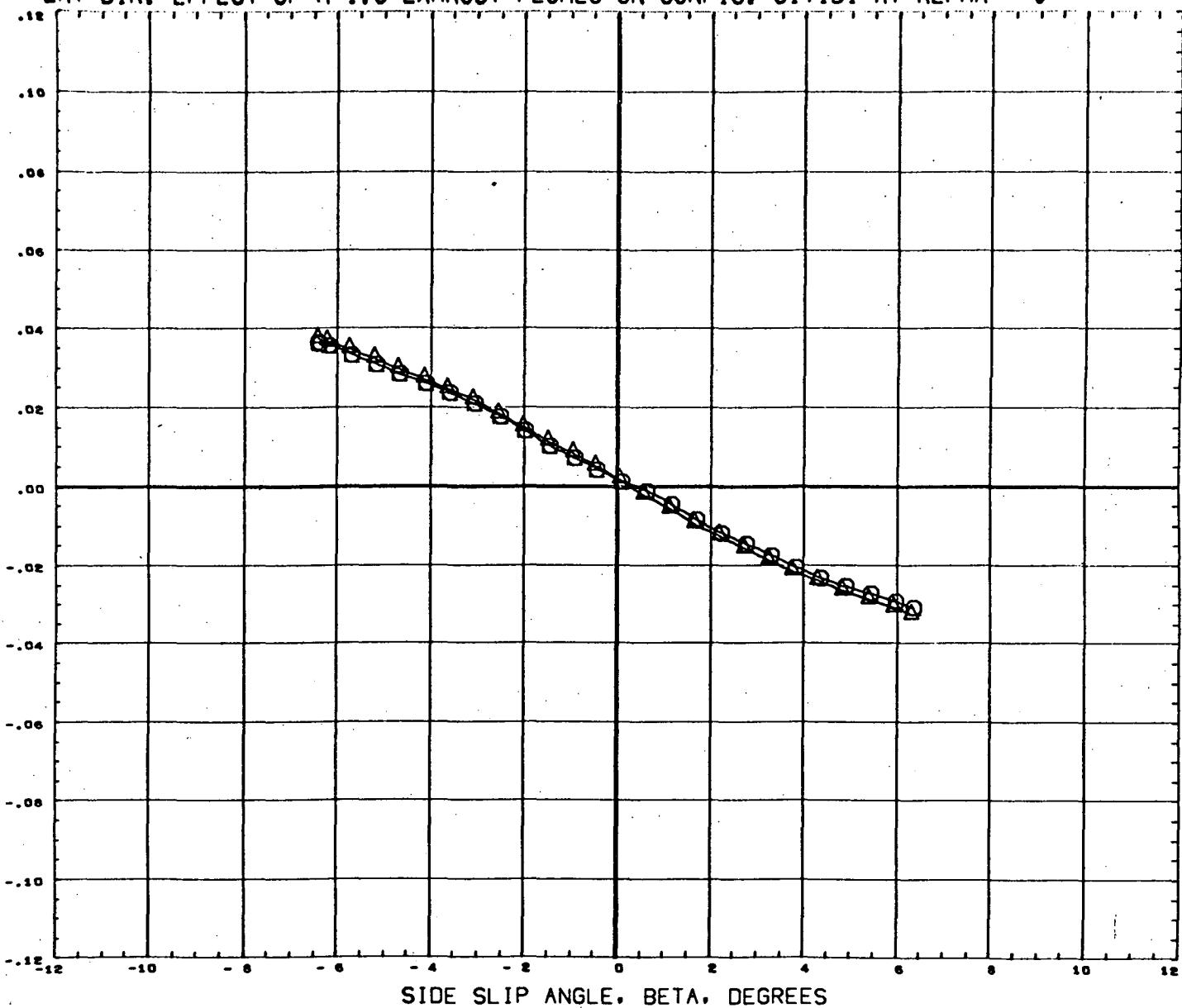
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD7529)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7539)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
							BREF	882.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 1.51

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LAT-DIR. EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. 01T1B1 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



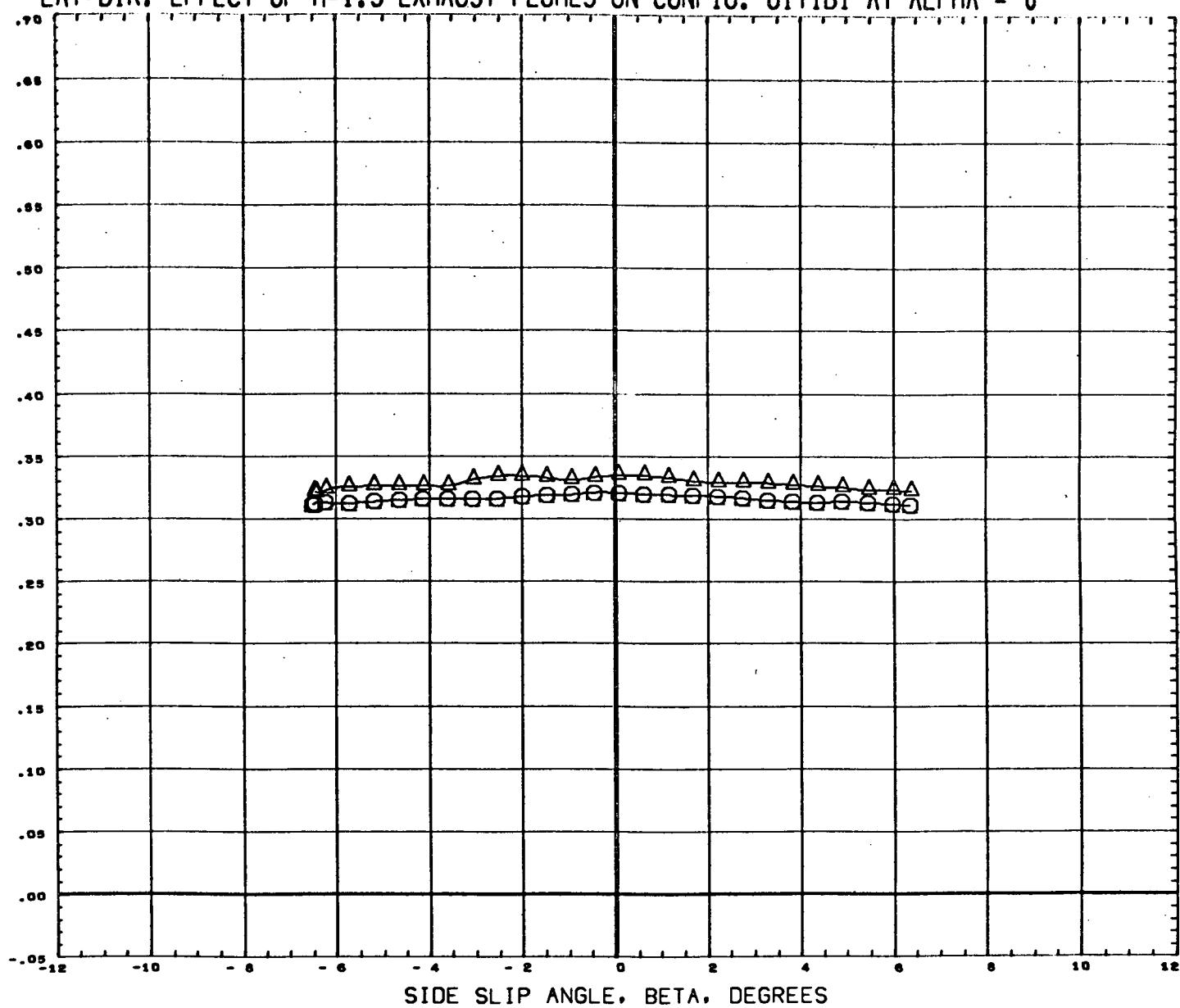
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7529)	Q	MDAC S-222 COMPOSITE(T-CG) 01T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7539)	△	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LAT-DIR. EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T1B1 AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF

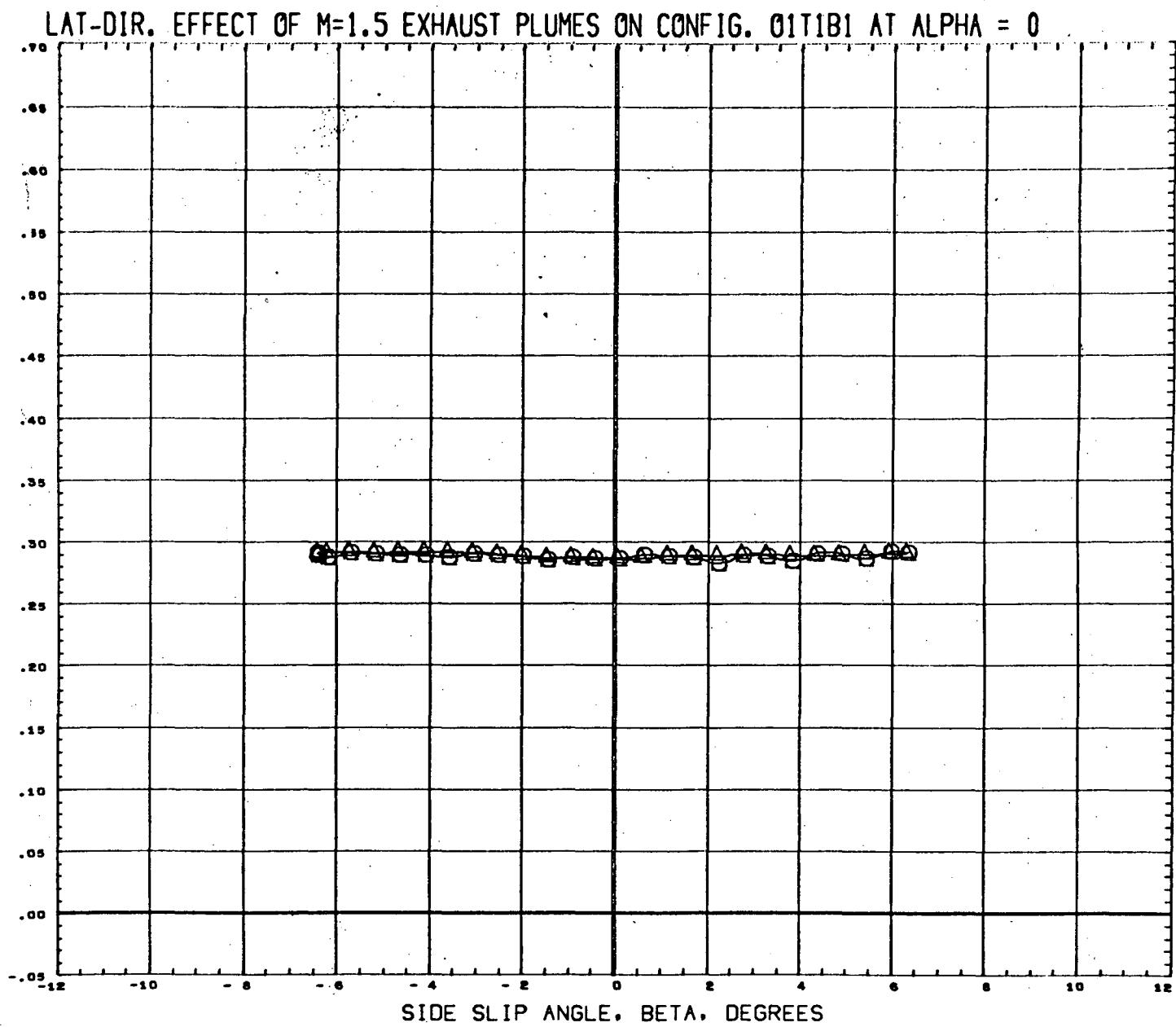


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7329)	Q	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7339)	A	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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FOREBODY AXIAL FORCE COEFFICIENT. CAF



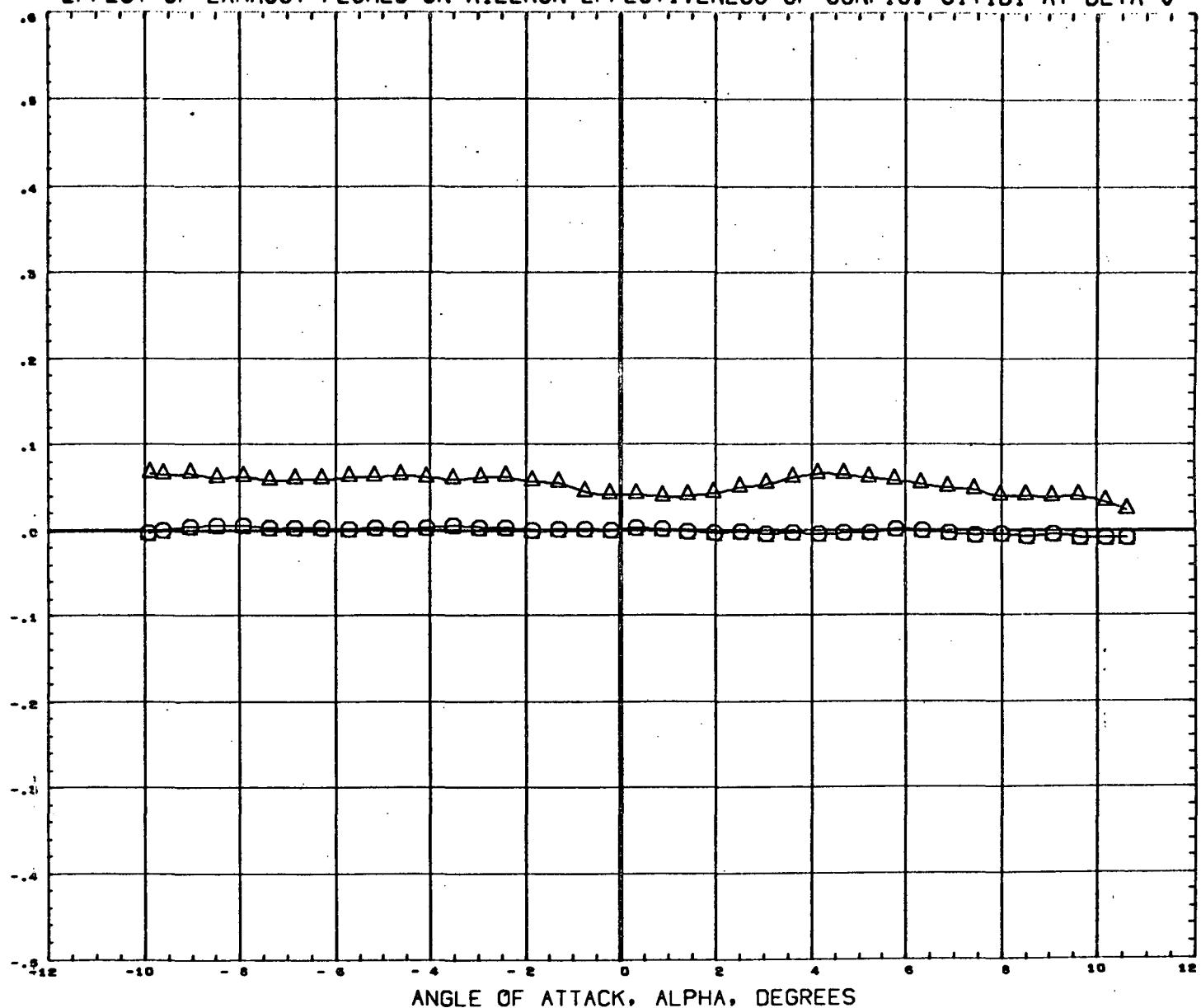
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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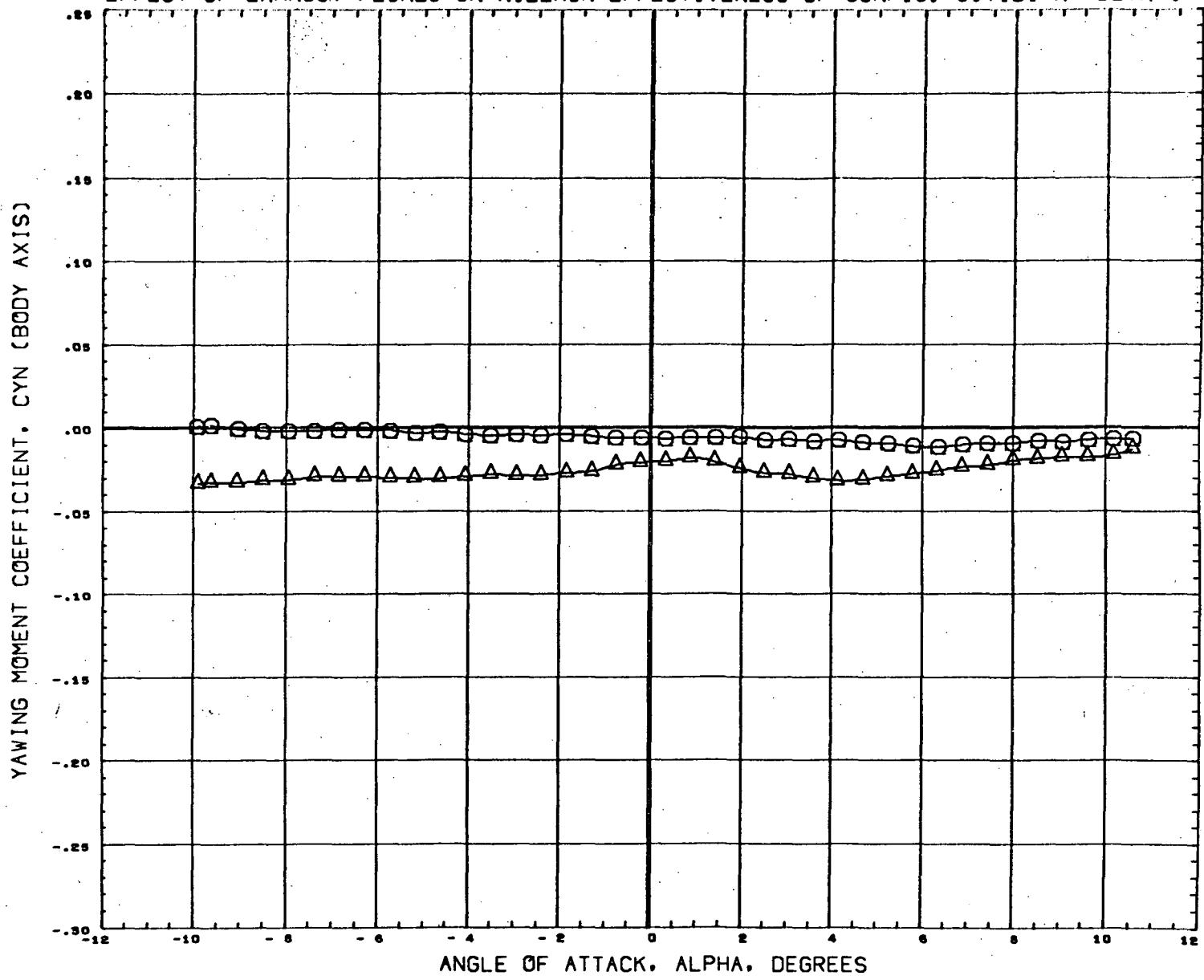
EFFECT OF EXHAUST PLUMES ON AILERON EFFECTIVENESS OF CONFIG. O1T1B1 AT BETA=0

LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
						SREF	3155.3040	SG.FT.
(RD7404)	MDAC S-222 COMPOSITE(T-CG) (O1)T1B1	0.000	0.000	20.000	0.000	LREF	609.5004	IN.
(RD7509)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	0.000	0.000	20.000	0.000	BREF	682.0004	IN.
						XMRP	557.0004	IN.
						YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

EFFECT OF EXHAUST PLUMES ON AILERON EFFECTIVENESS OF CONFIG. O1T1B1 AT BETA=0



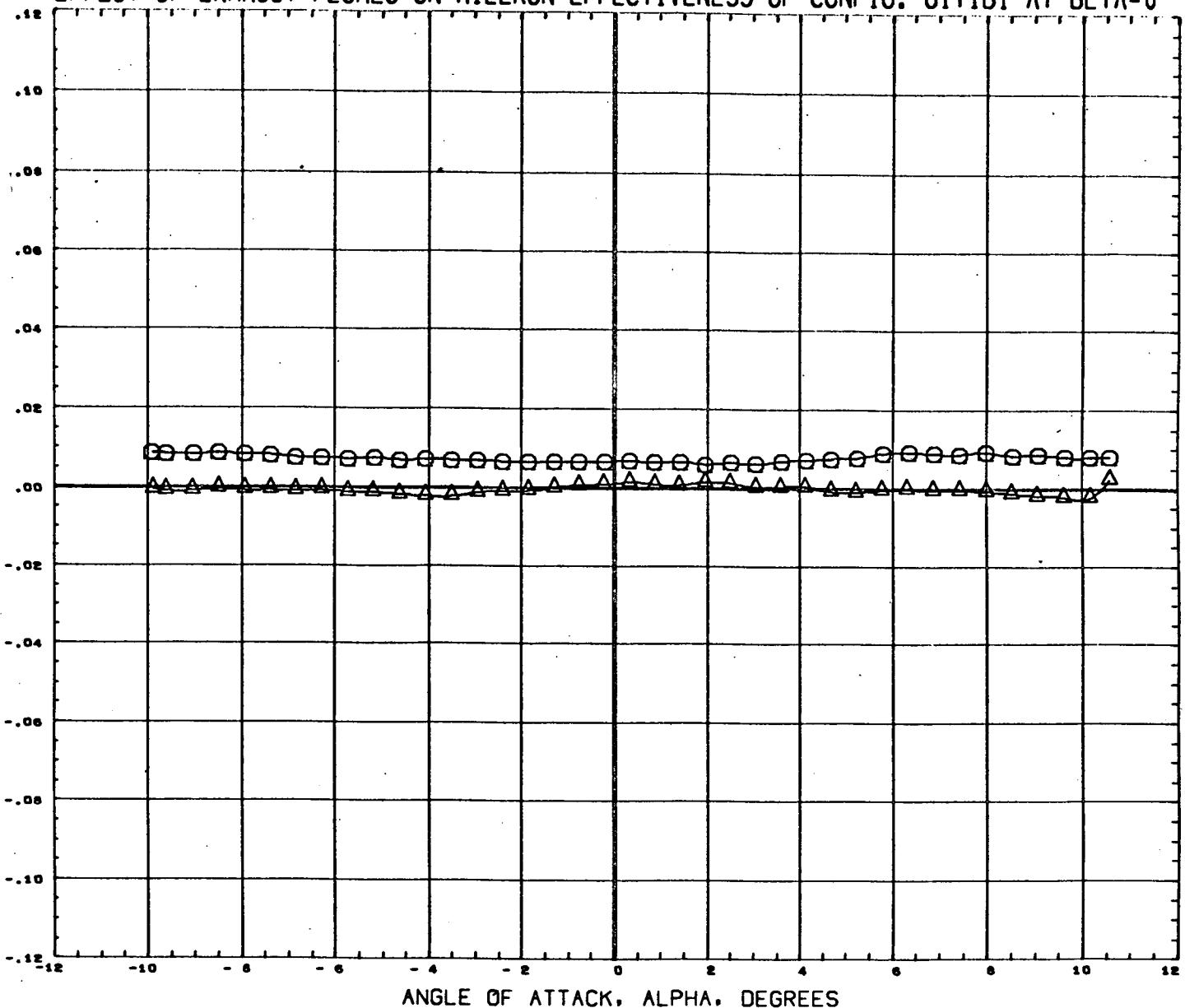
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
(RD7404)	Q	MDAC S-222 COMPOSITE (T-CG) (O1) T1B1	0.000	0.000	20.000	0.000	SREF	5155.3040	50.FT.
(RD7509)	A	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (2.5)	0.000	0.000	20.000	0.000	LREF	609.5004	IN.

MACH 2.20

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EFFECT OF EXHAUST PLUMES ON AILERON EFFECTIVENESS OF CONFIG. O1T1B1 AT BETA=0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



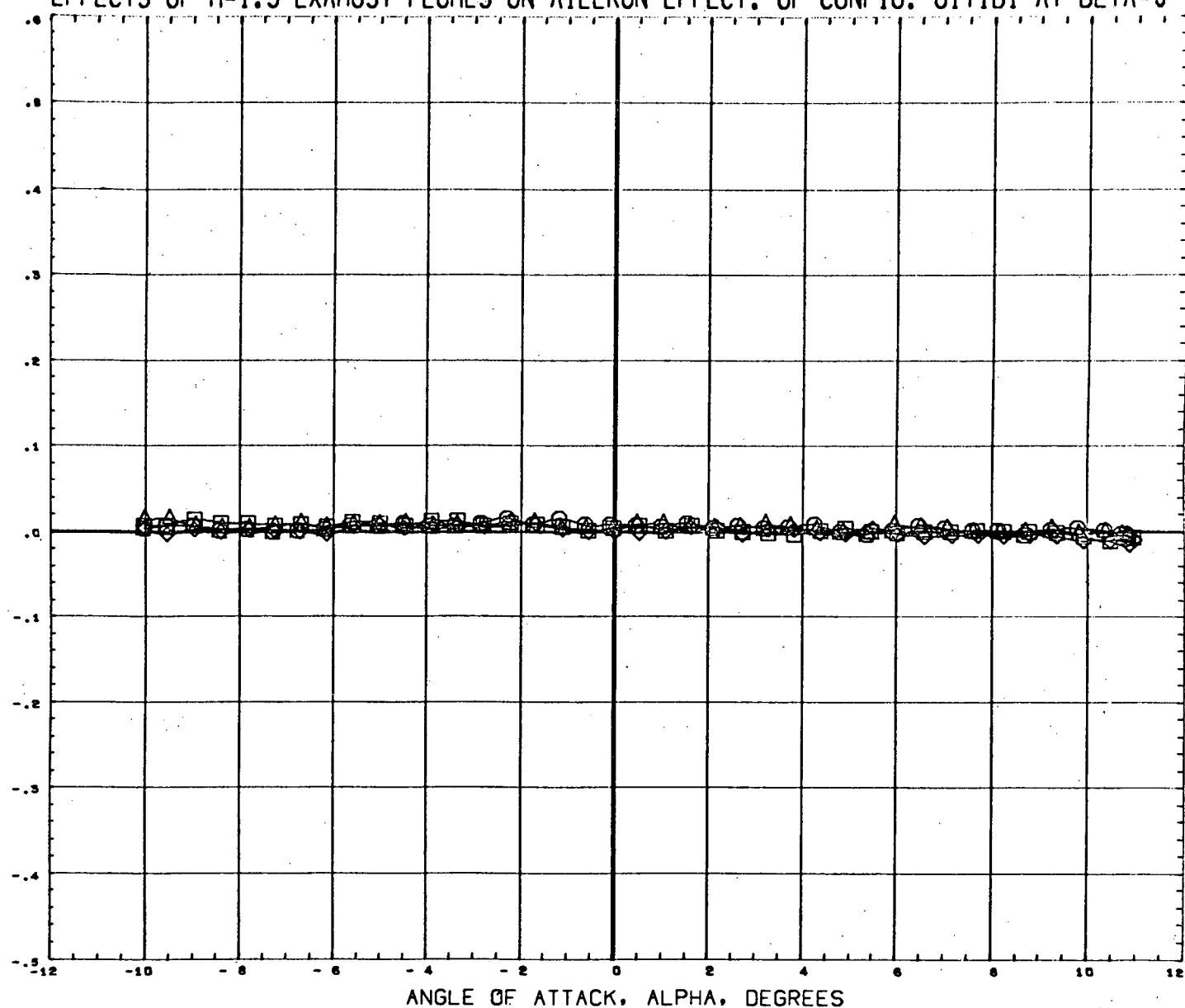
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7404)	MDAC S-222 COMPOSITE(T-CG) (O1)T1B1	0.000	0.000	20.000	0.000	SREF 3155.3040 SQ.FT.
(RD7509)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(2.5)	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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EFFECTS OF M=1.5 EXAHUST PLUMES ON AILERON EFFECT. OF CONFIG. 01T1B1 AT BETA=0

LATERAL FORCE COEFFICIENT. CY



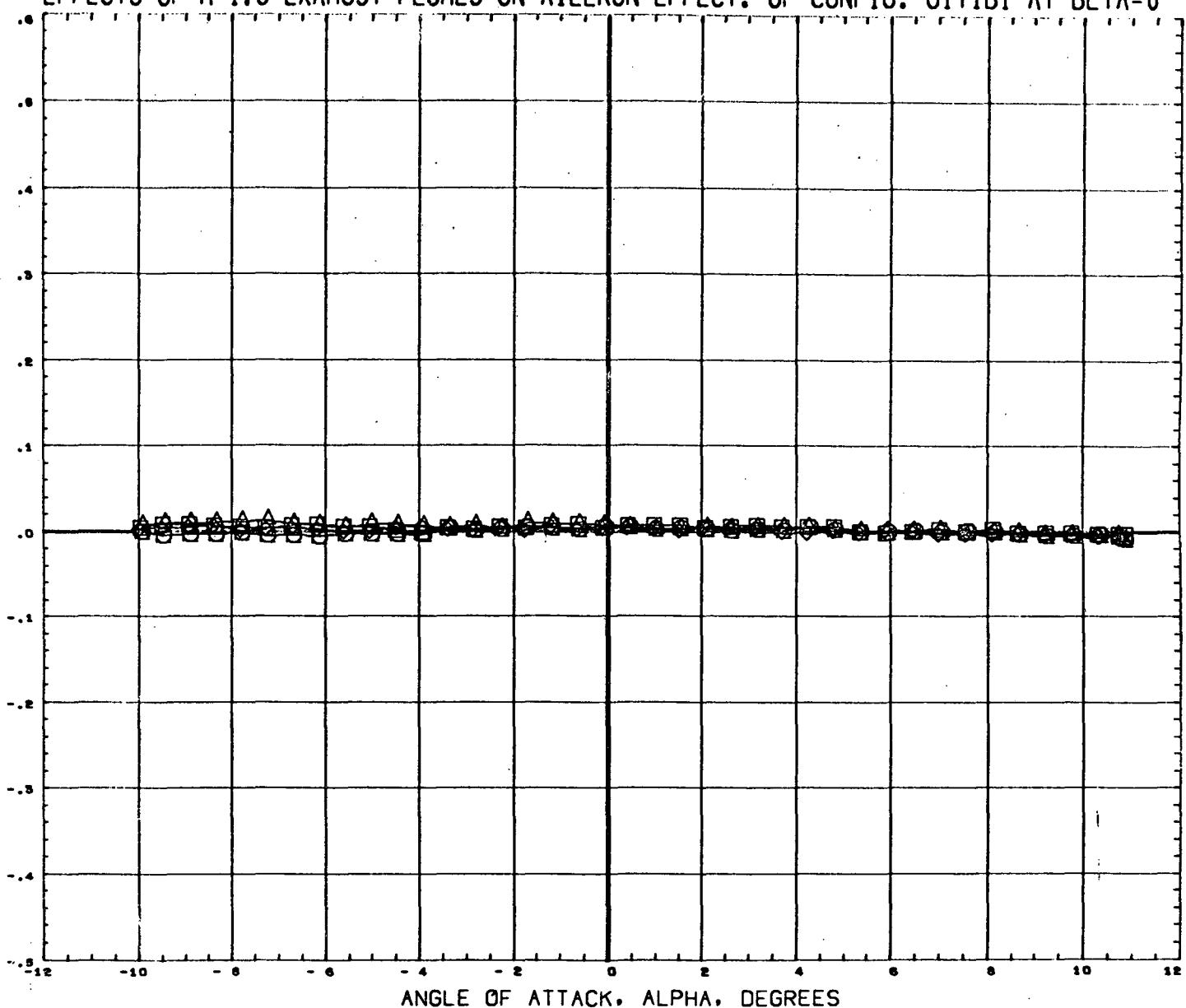
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7528)	MDAC S-222 COMPOSITE(T-CG) 01T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7530)	MDAC S-222 COMPOSITE(T-CG) 01T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7538)	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7540)	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON AILERON EFFECT. OF CONFIG. O1T1B1 AT BETA=0

LATERAL FORCE COEFFICIENT, CY



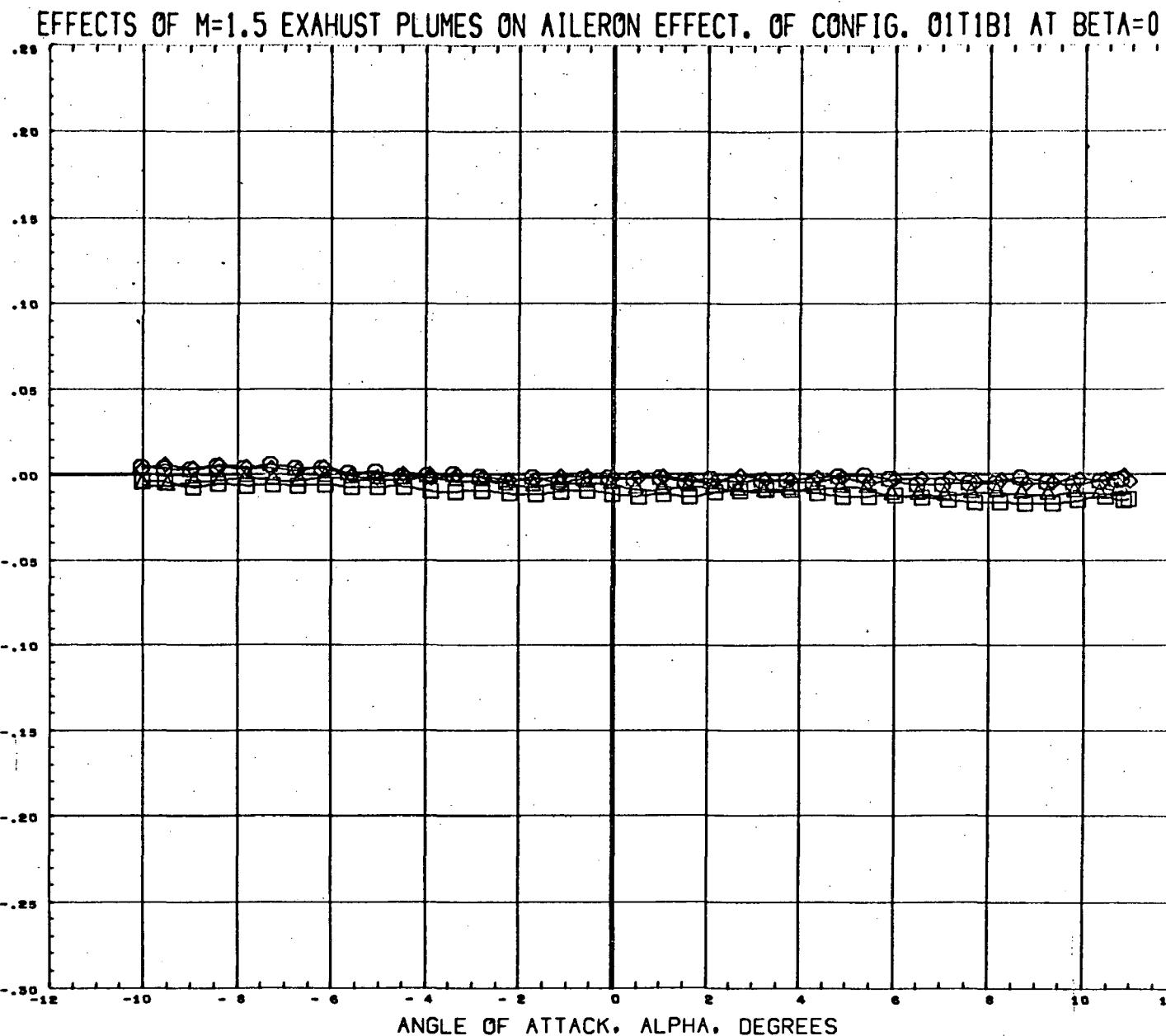
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	3155.3040
(RD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	LREF	609.5004
(RD7530)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	20.000	0.000	BREF	682.0004
(RD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	XMRP	557.0004
(RD7540)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	YMRP	0.0000
						ZMRP	200.0004
						SCALE	0.0060

MACH 2.20

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YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

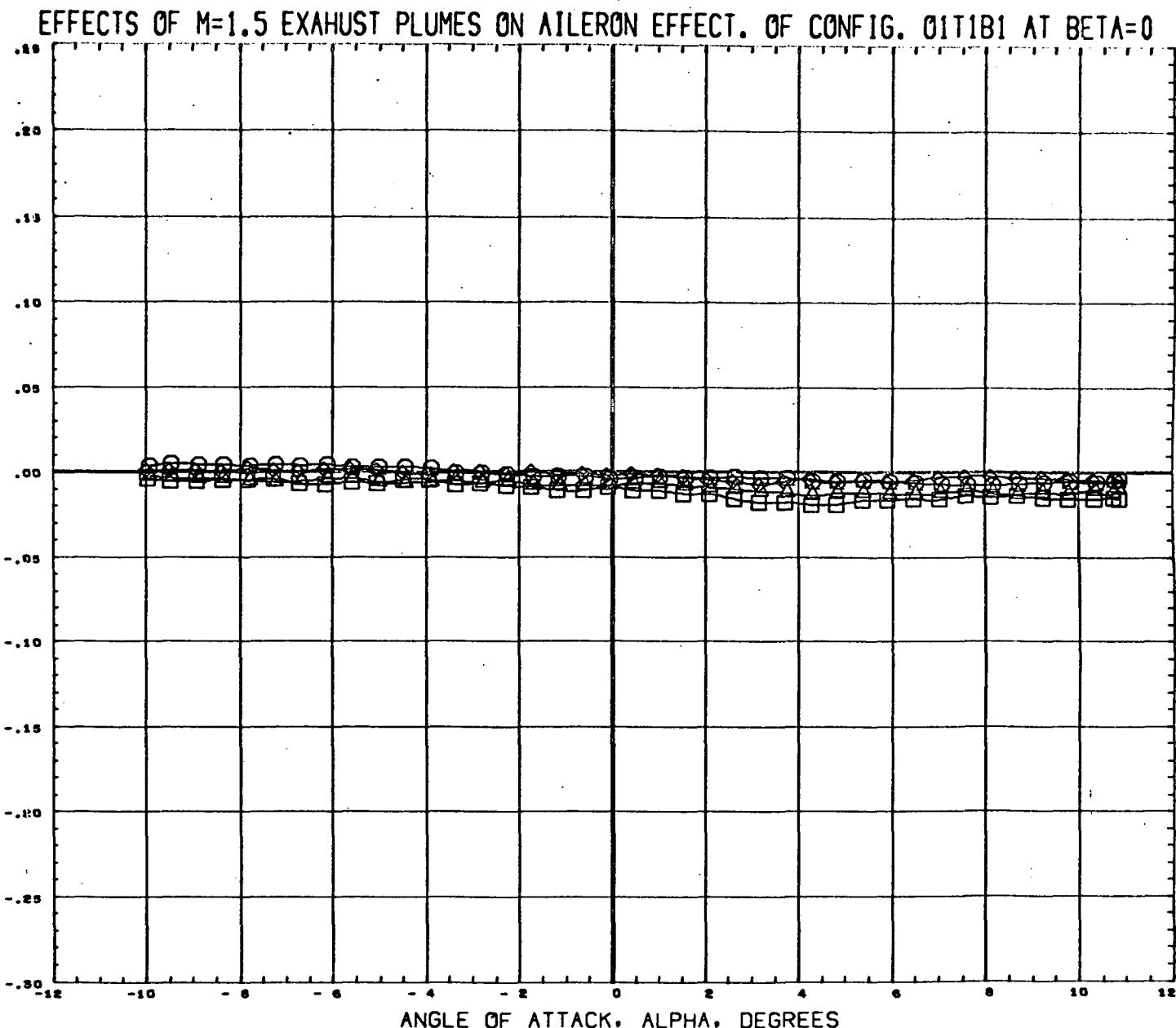


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7528)	○	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7530)	△	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7536)	◇	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7540)	□	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH 1.51

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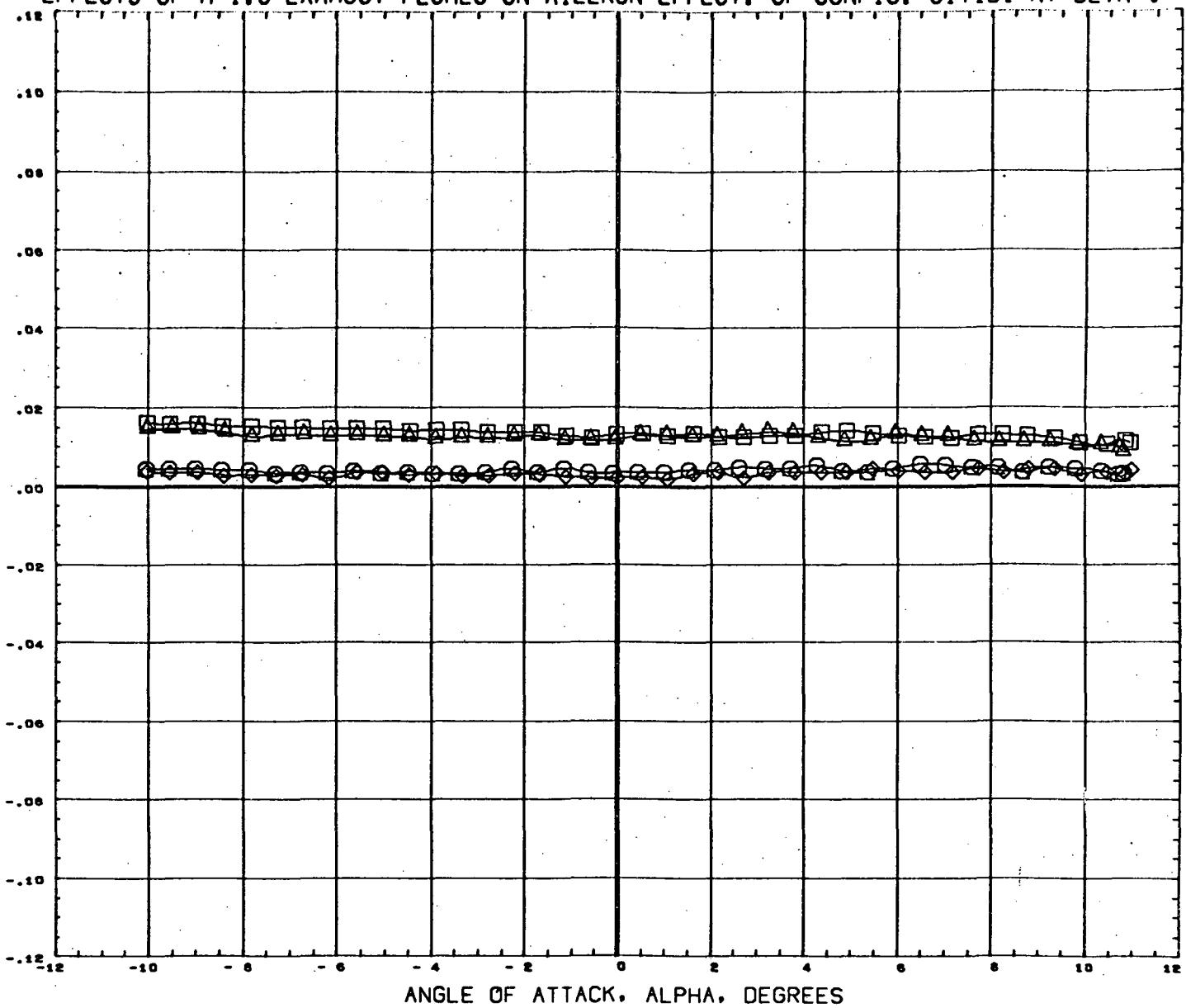
YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7530)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7536)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7540)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 587.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)

EFFECTS OF M=1.5 EXHAUST PLUMES ON AILERON EFFECT. OF CONFIG. O1T1B1 AT BETA=0



ANGLE OF ATTACK. ALPHA, DEGREES

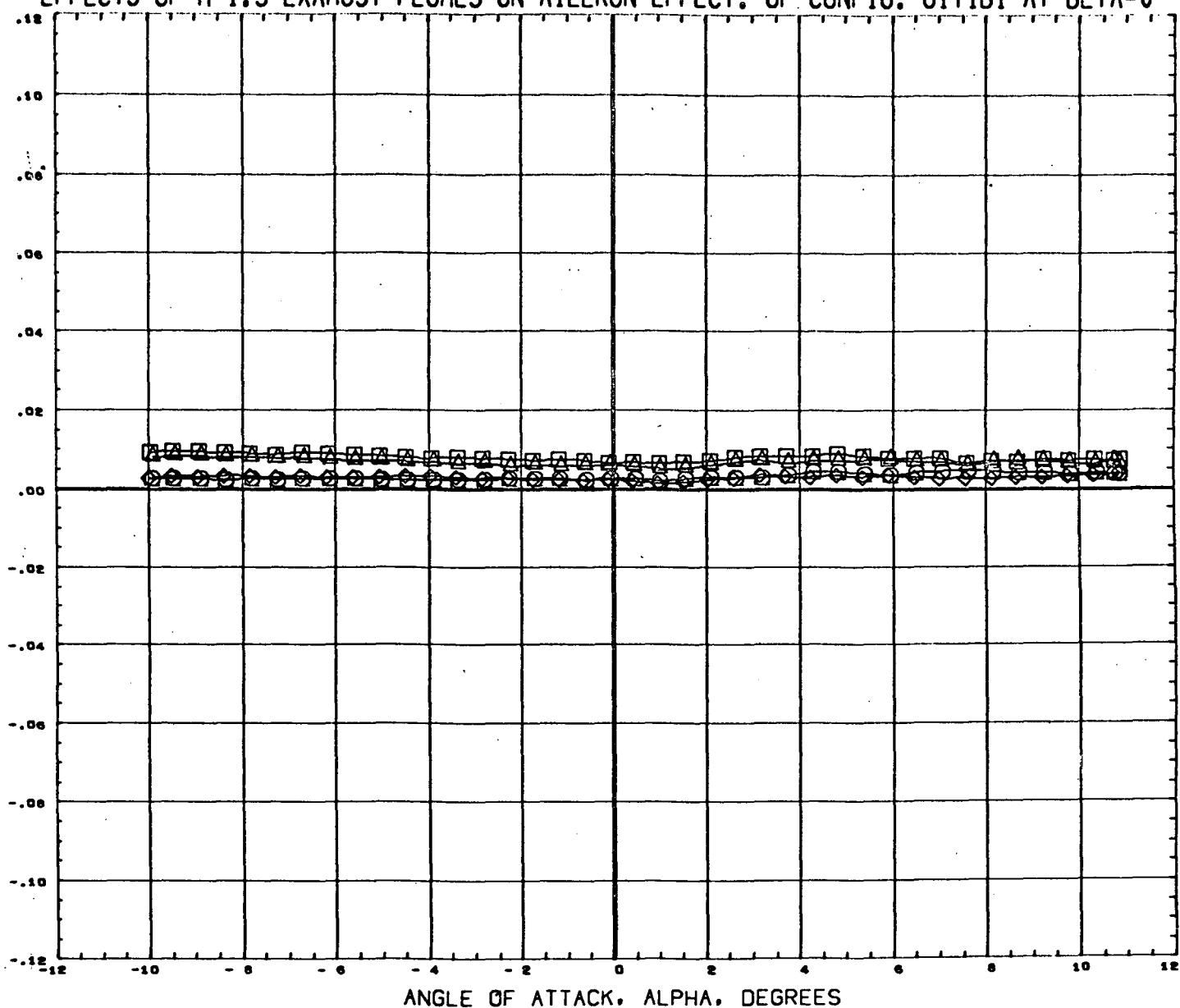
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
(RD7528)	□	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(RD7530)	△	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF	609.5004	IN.
(RD7538)	◇	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF	882.0004	IN.
(RD7540)	□△	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP	557.0004	IN.
							YMRP	0.0000	IN.
							ZMRP	200.0004	IN.
							SCALE	0.0060	

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON AILERON EFFECT. OF CONFIG. O1T1B1 AT BETA=0

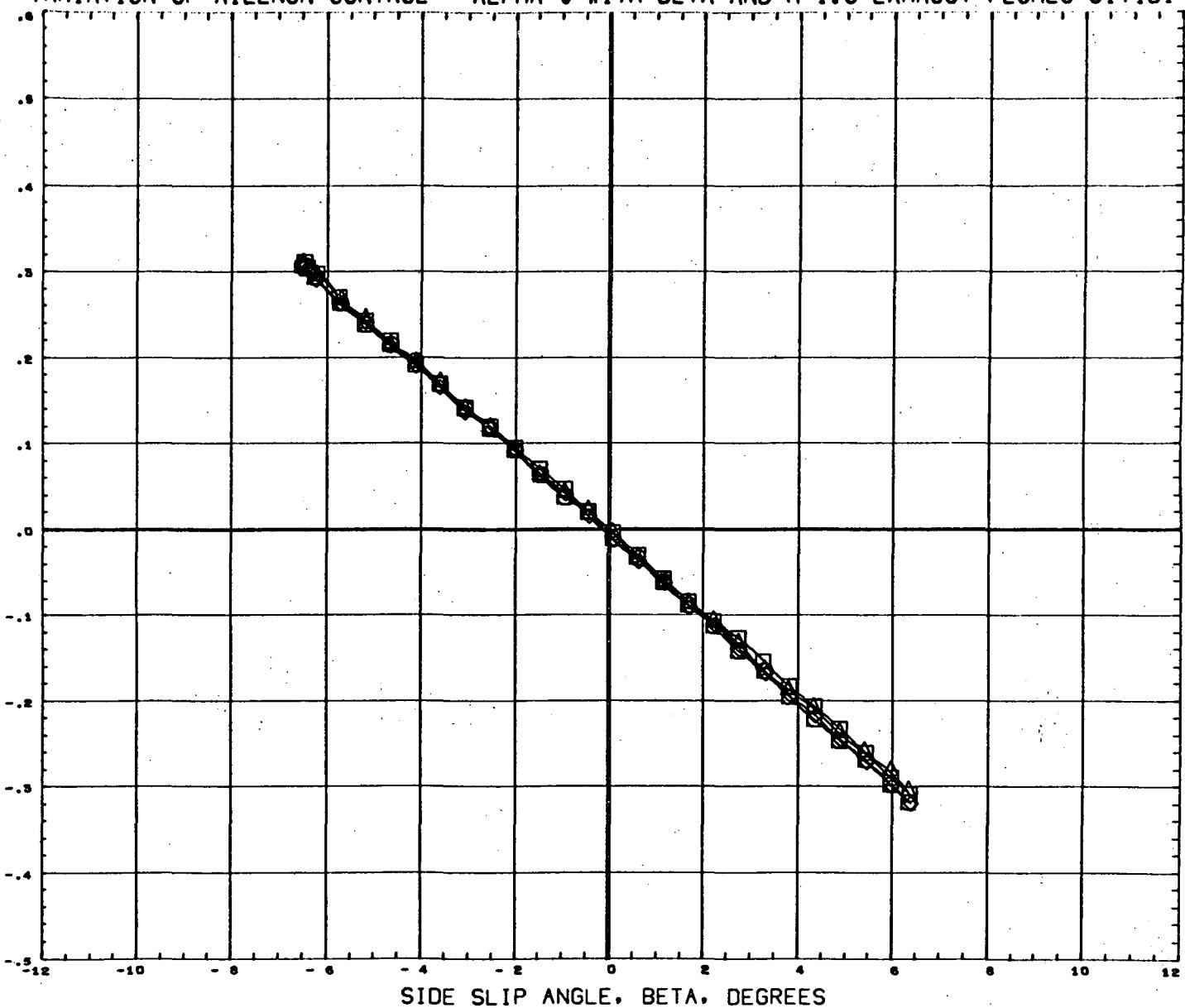
ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7520)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7530)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7538)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7540)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T1B1

LATERAL FORCE COEFFICIENT, CY



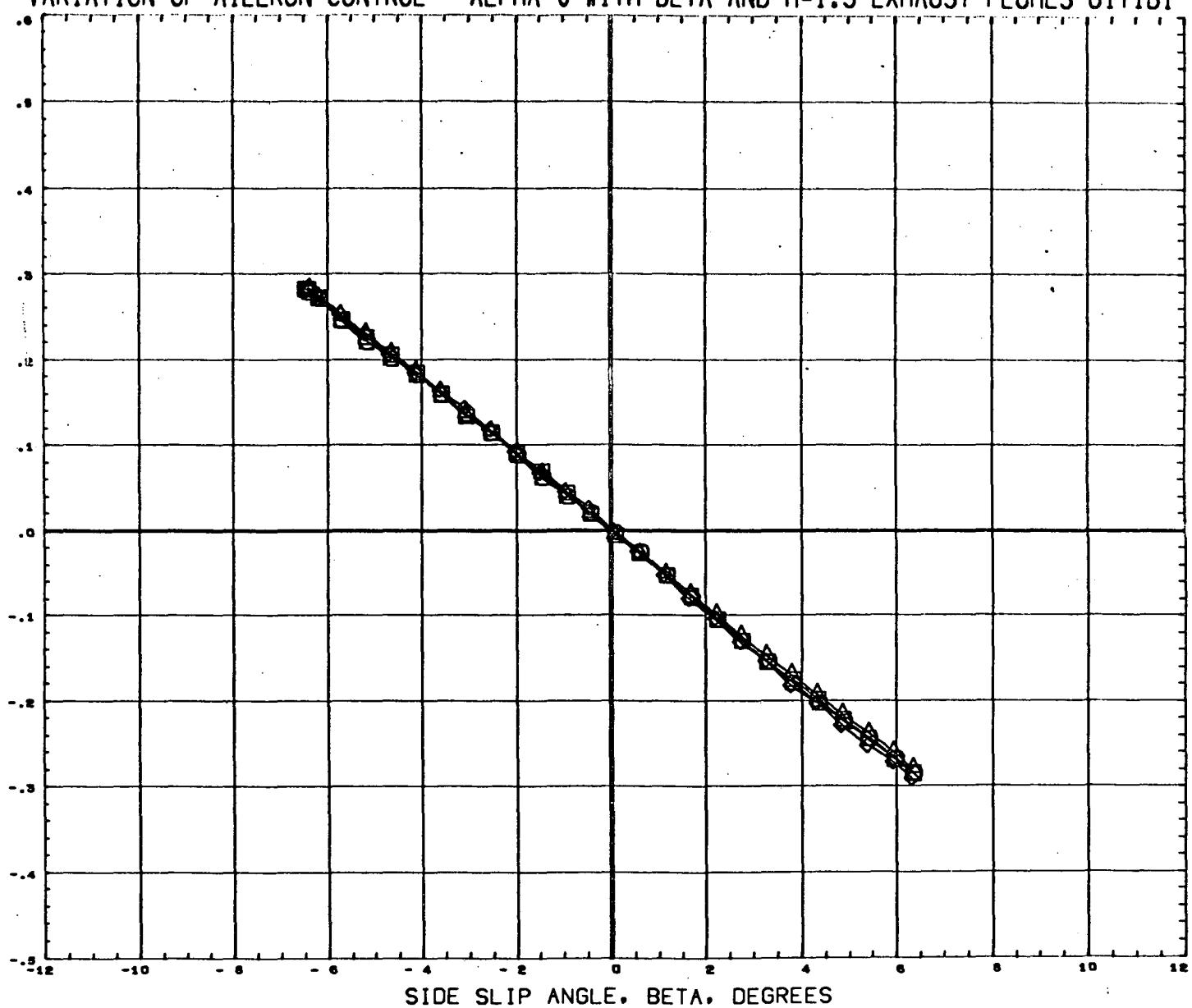
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7529)	■	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7531)	□	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7539)	◇	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7541)	▢	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH 1.51

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T1B1

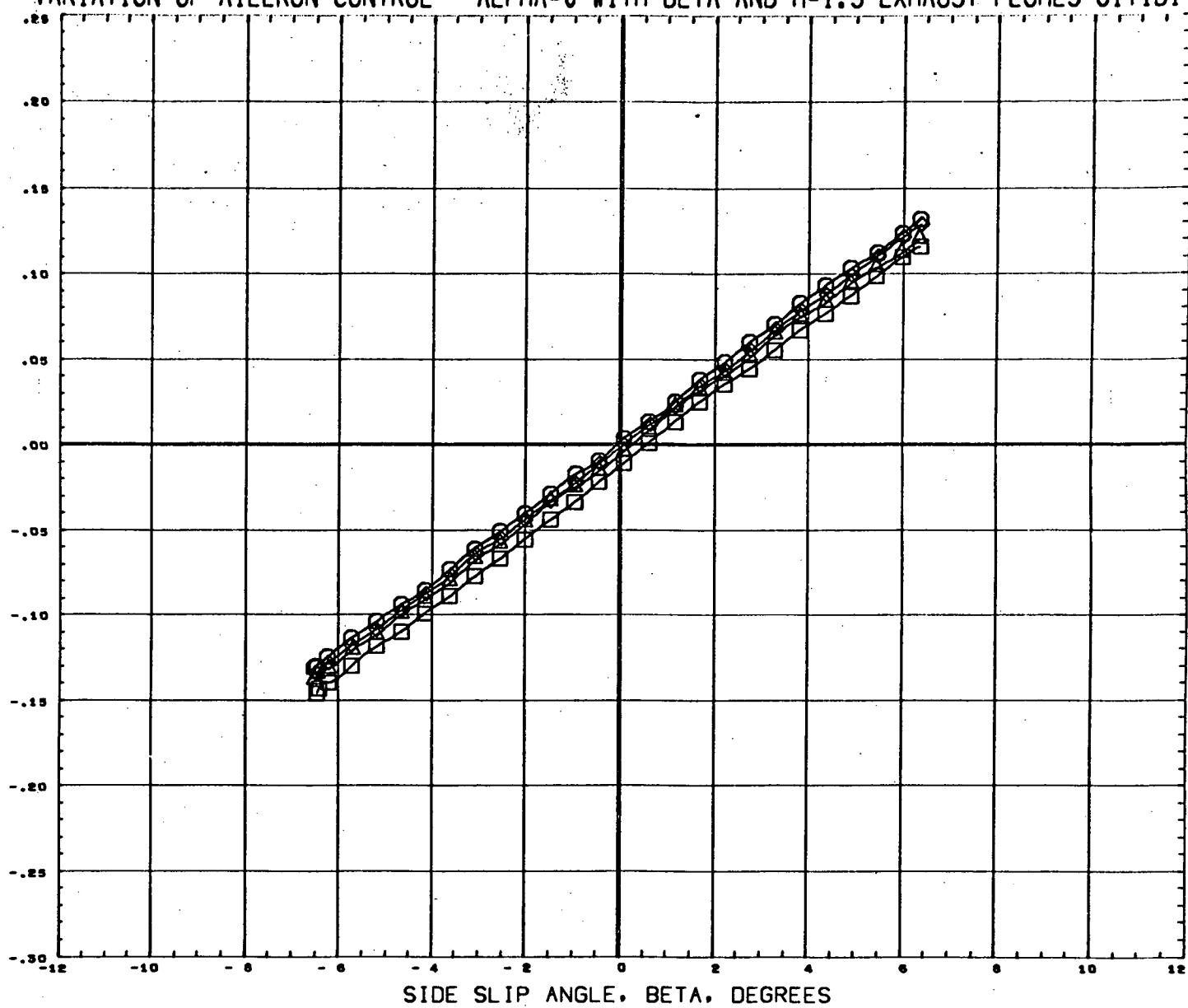
LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7531)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7541)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T1B1

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



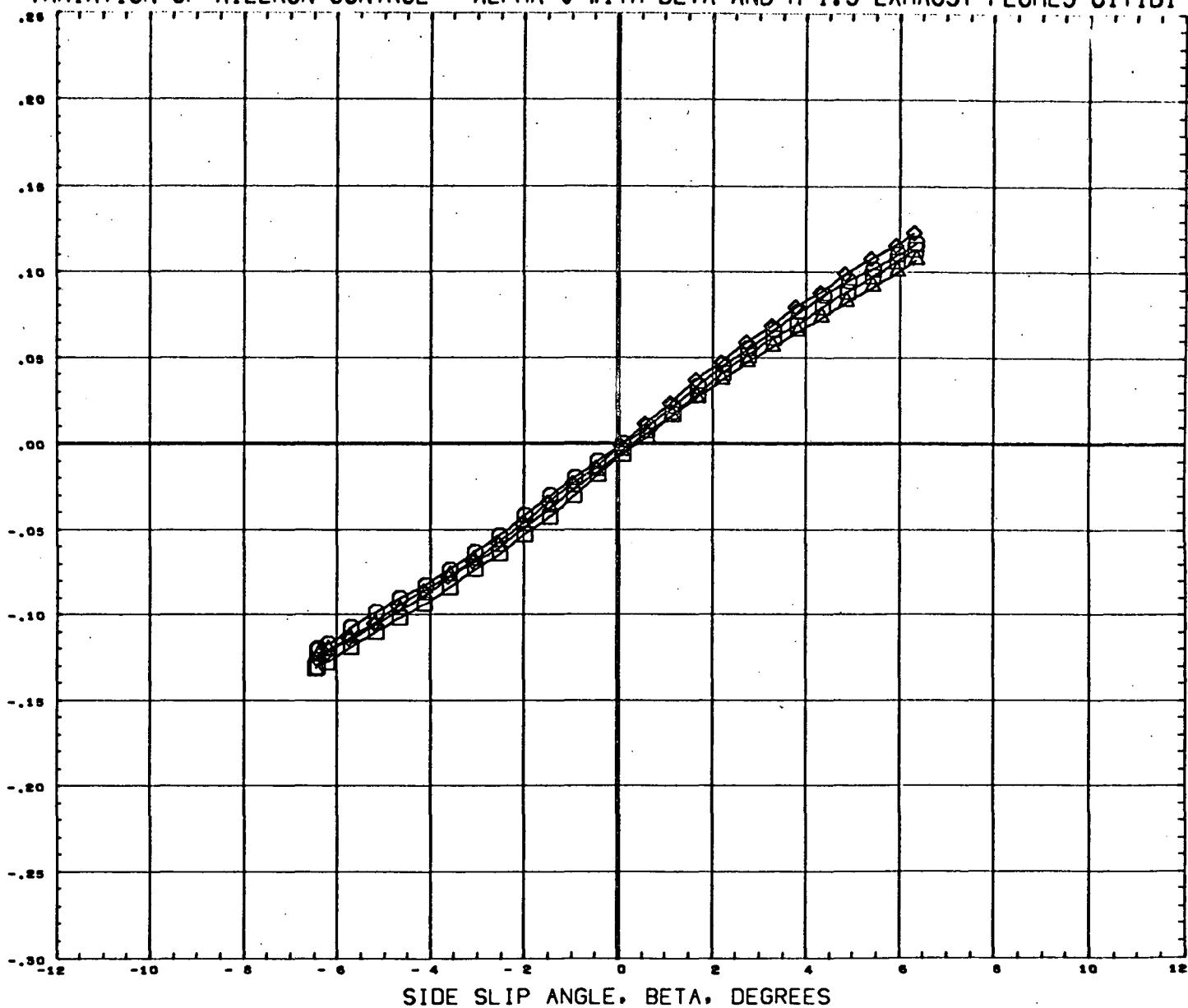
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
(RD7529)	○	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7531)	✖	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(RD7539)	◇	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF	882.0004 IN.
(RD7541)	□	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	20.000	0.000	XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 1.51

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T1B1

YAWING-MOMENT COEFFICIENT, CYN (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7531)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7541)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 957.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH

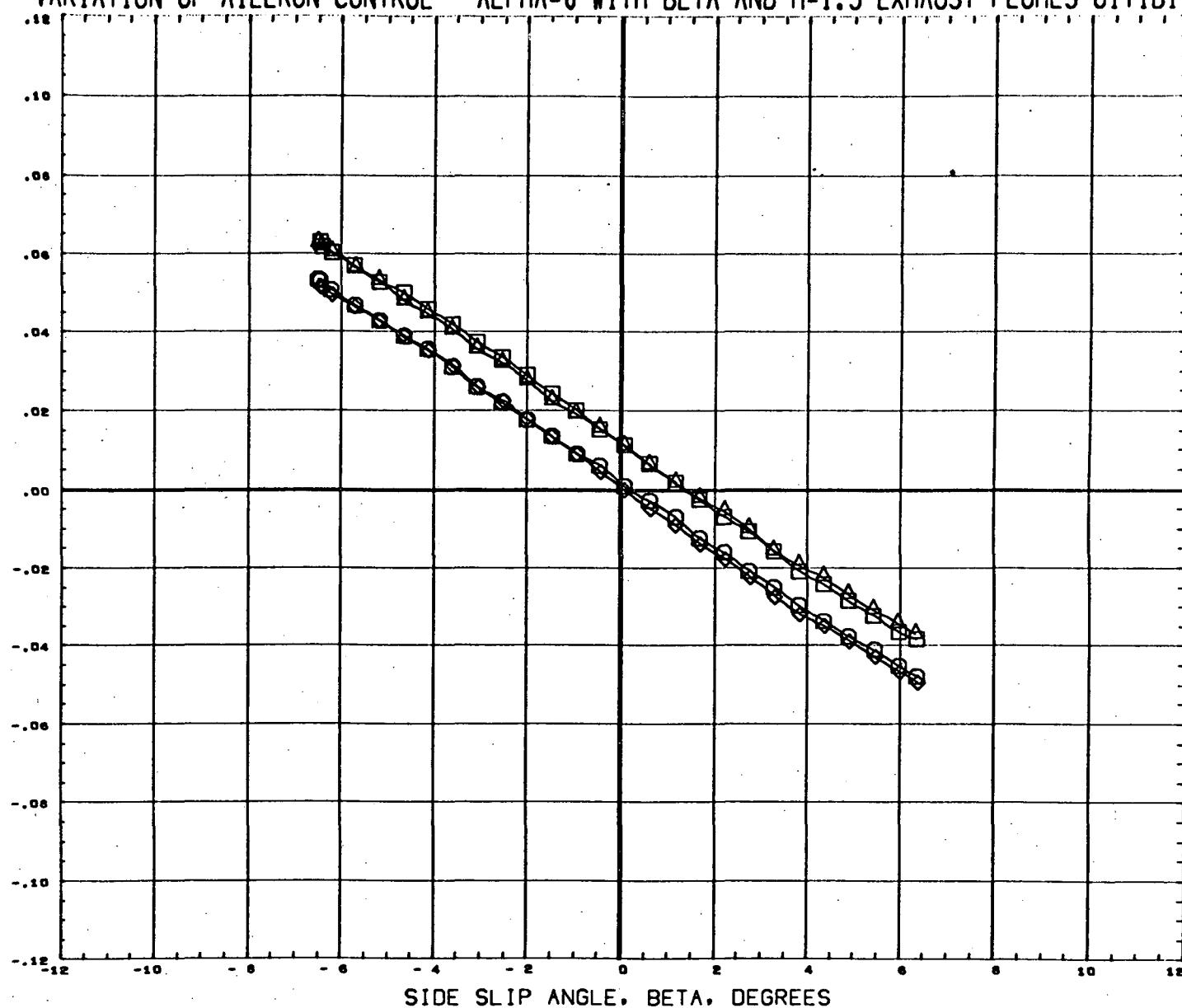
2.20

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T1B1

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



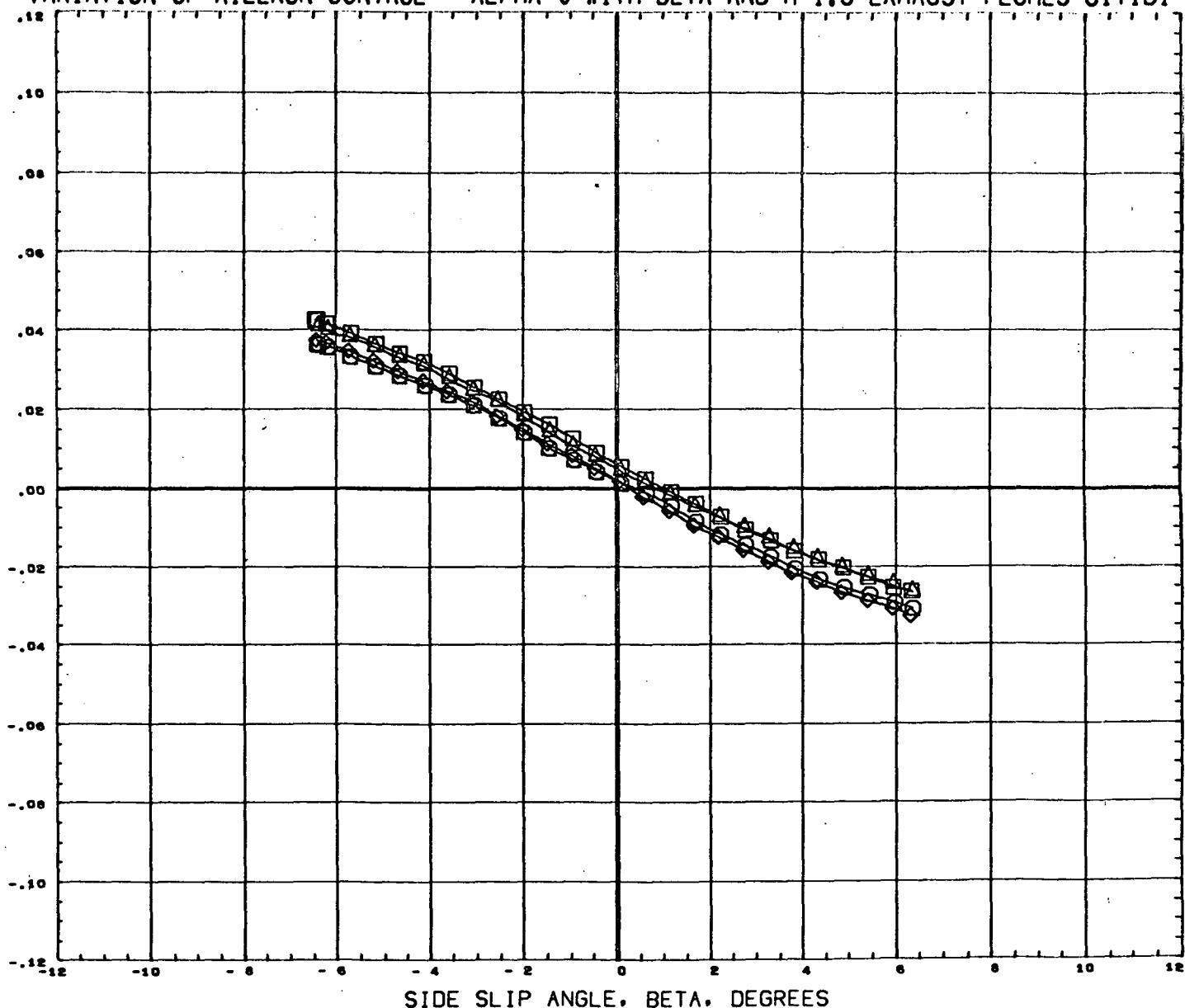
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7529)	○	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7531)	◇	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7539)	◇	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7541)	□	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH 1.51

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES OIT1B1

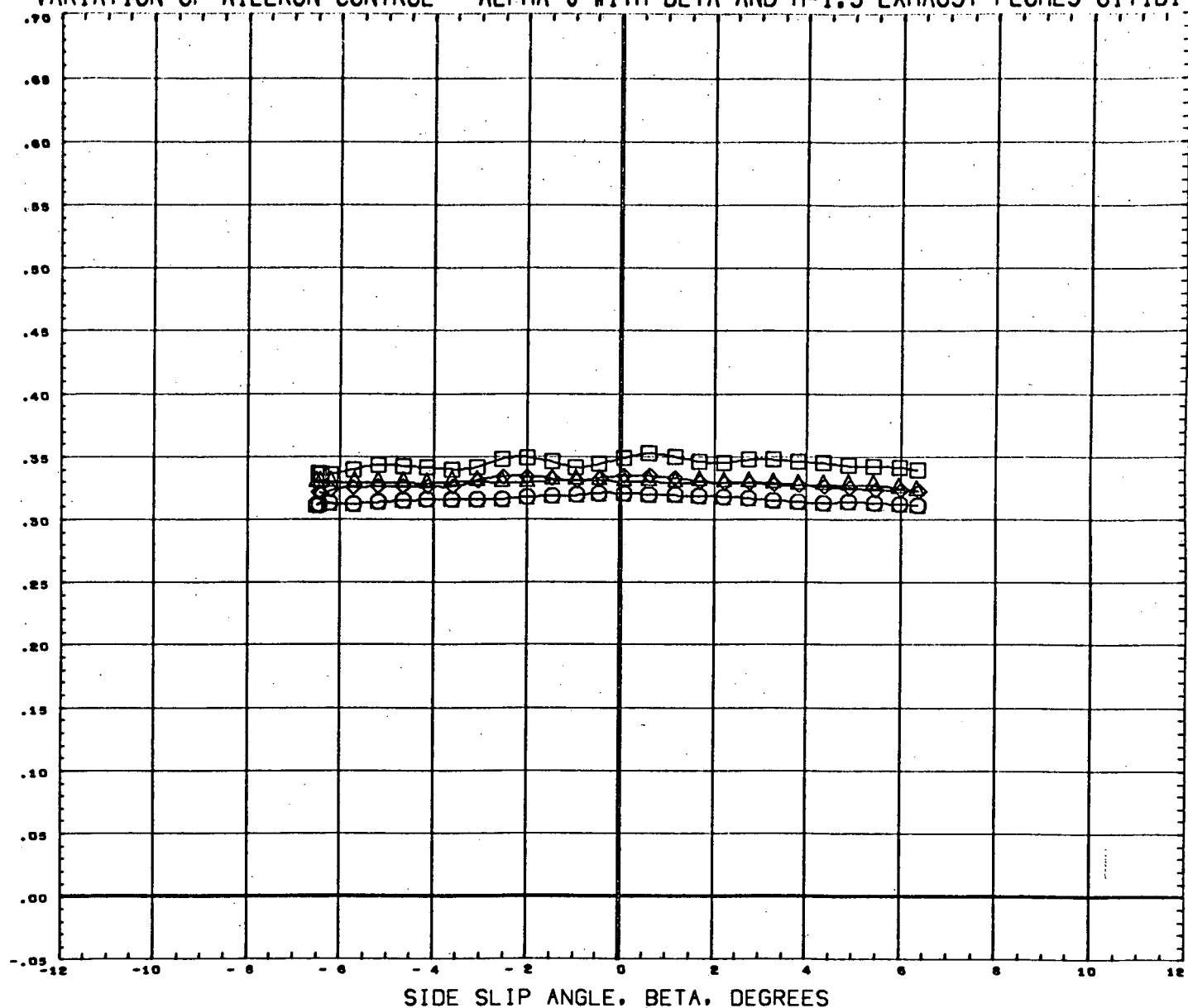
ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE(T-CG) OIT1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7531)	MDAC S-222 COMPOSITE(T-CG) OIT1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) OIT1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7541)	MDAC S-222 COMPOSITE(T-CG) OIT1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T1B1

FOREBODY AXIAL FORCE COEFFICIENT, CAF



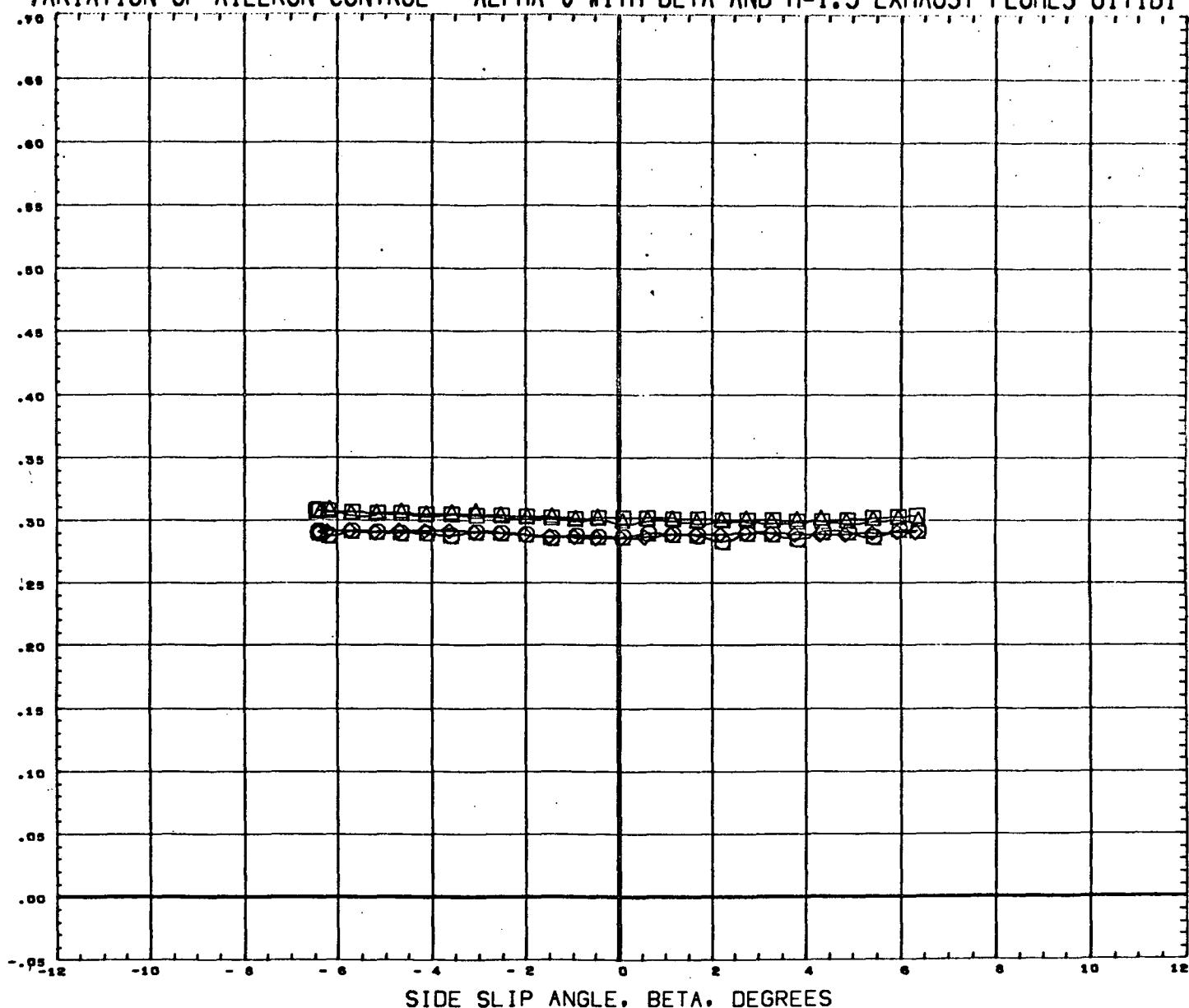
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7531)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7541)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T1B1

FOREBODY AXIAL FORCE COEFFICIENT. CAF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7531)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7541)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH

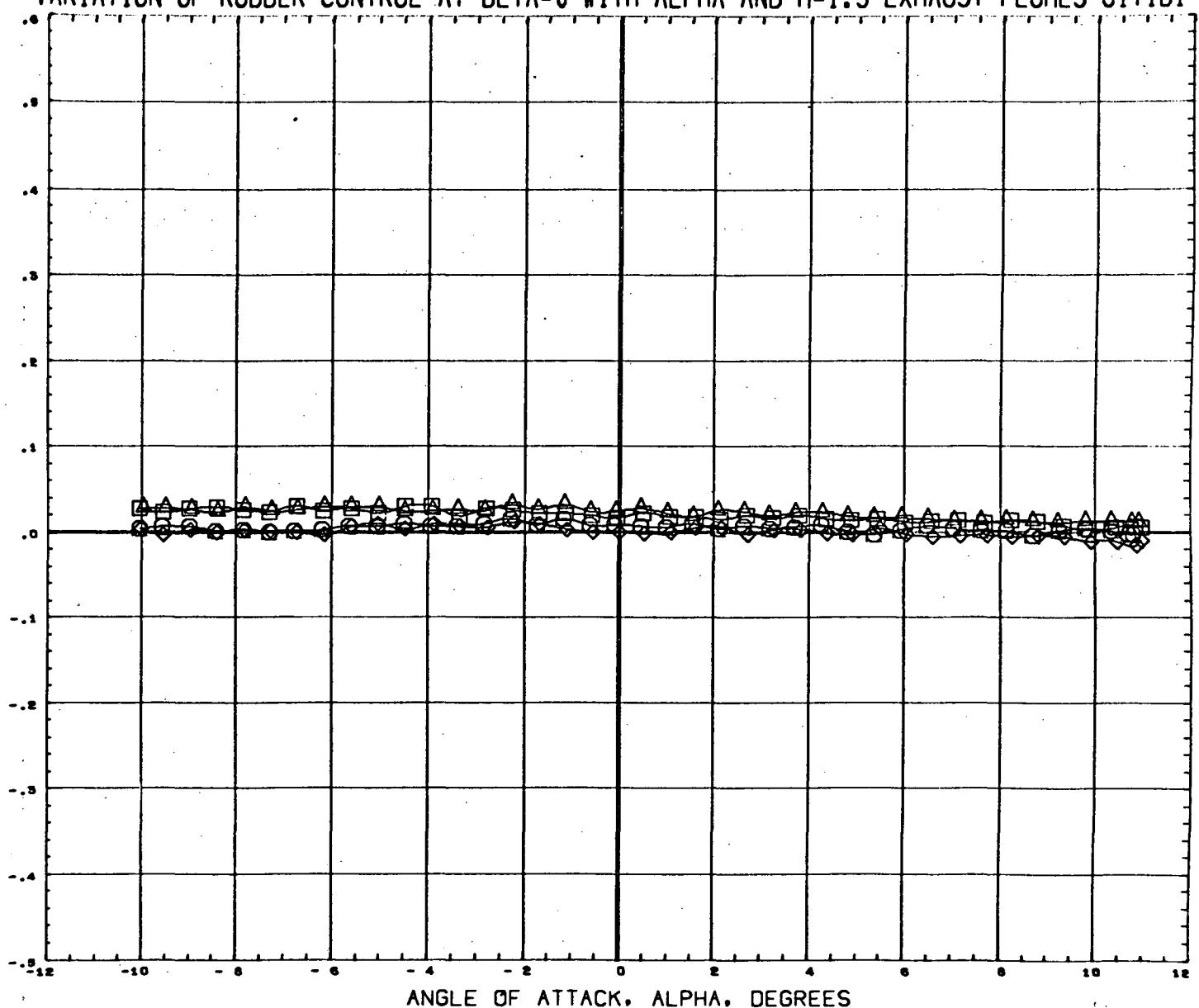
2.20

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=1.5 EXHAUST PLUMES O1T1B1

LATERAL FORCE COEFFICIENT, CY



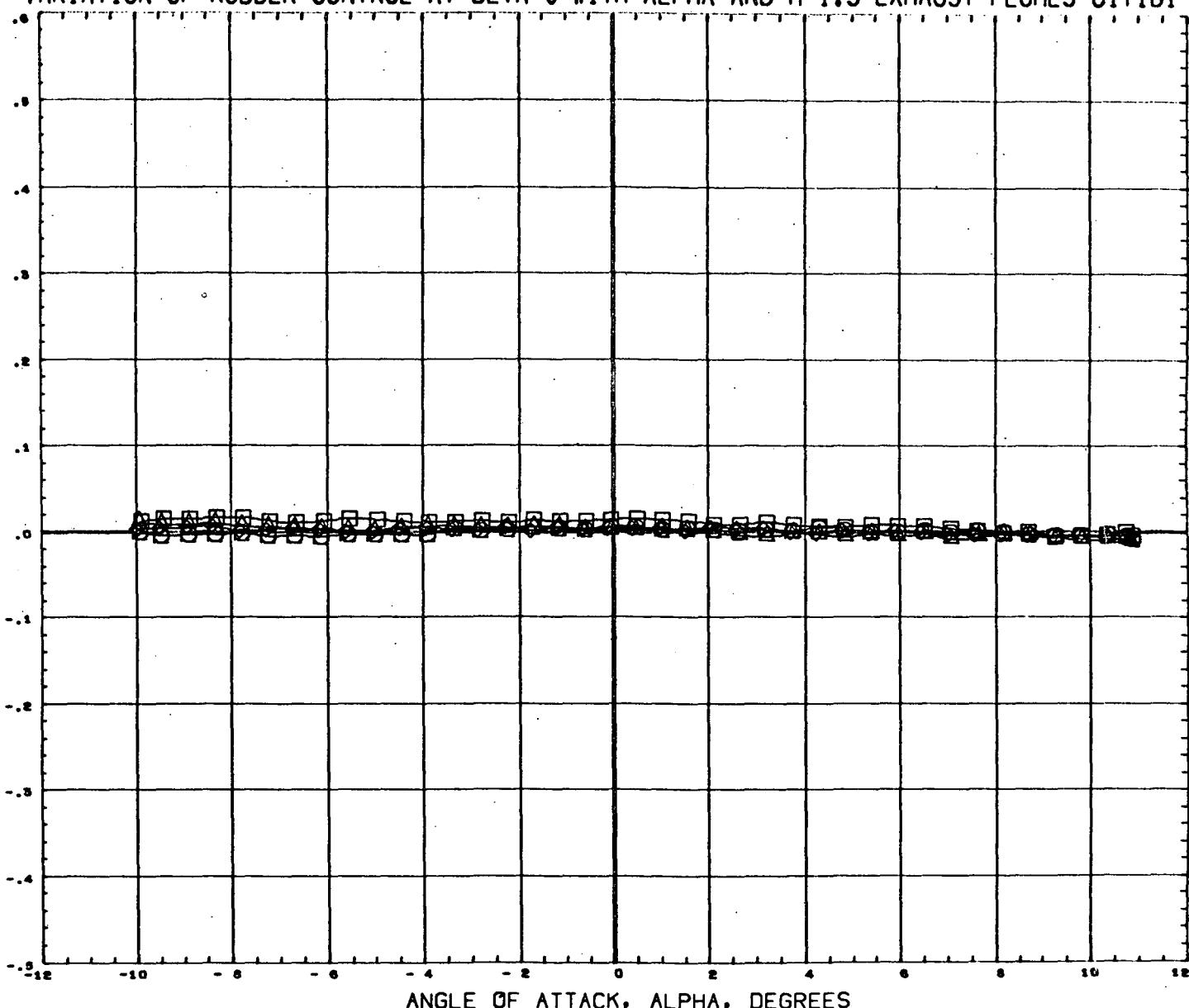
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
						SREF	ZREF	SCALE
(RD7526)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	0.000	3155.3040	50.000	SQ.FT.
(RD7536)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF	609.5004	IN.
(RD7538)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF	682.0004	IN.
(RD7542)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	10.000	XMRP	557.0004	IN.
						YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

MACH 1.51

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=1.5 EXHAUST PLUMES O1T1B1

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7526)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.304Q SQ.FT.
(RD7536)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7542)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	XHRP 557.0004 IN.
						YHRP 0.0000 IN.
						ZHRP 200.0004 IN.
						SCALE 0.0060

MACH

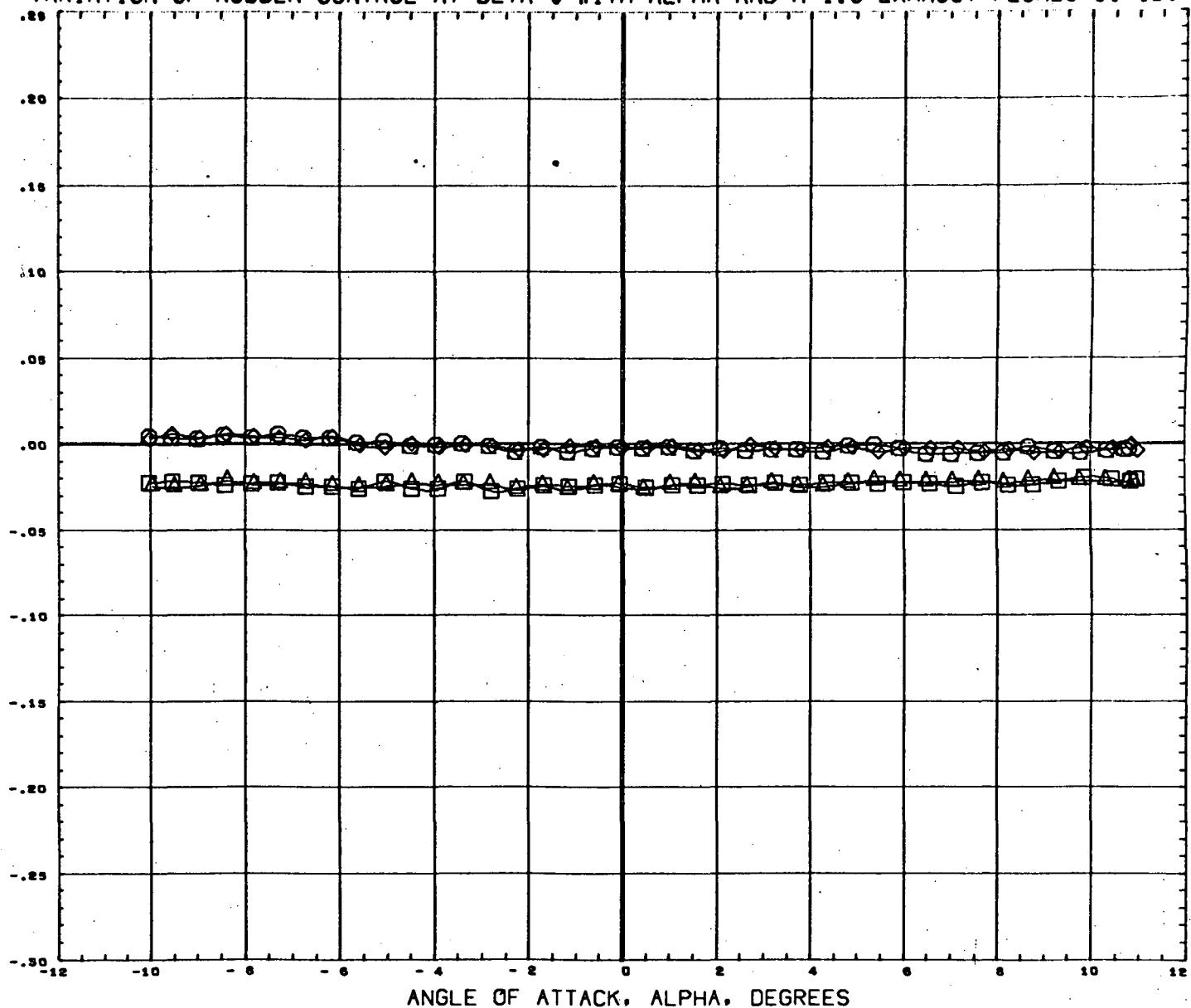
2.20

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=1.5 EXHAUST PLUMES O1T1B1

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

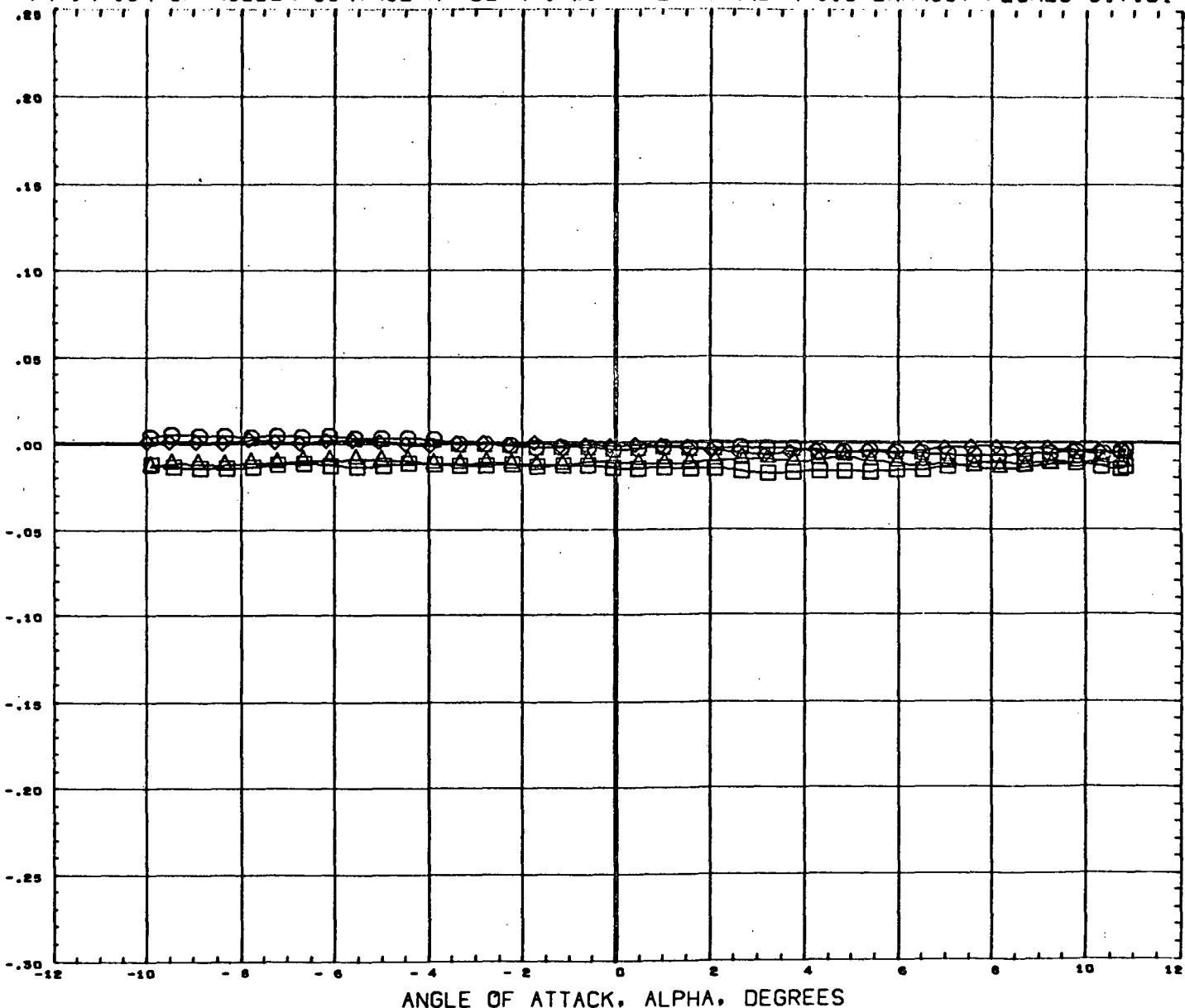
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(RD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7536)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7542)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=1.5 EXHAUST PLUMES OITIB1

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

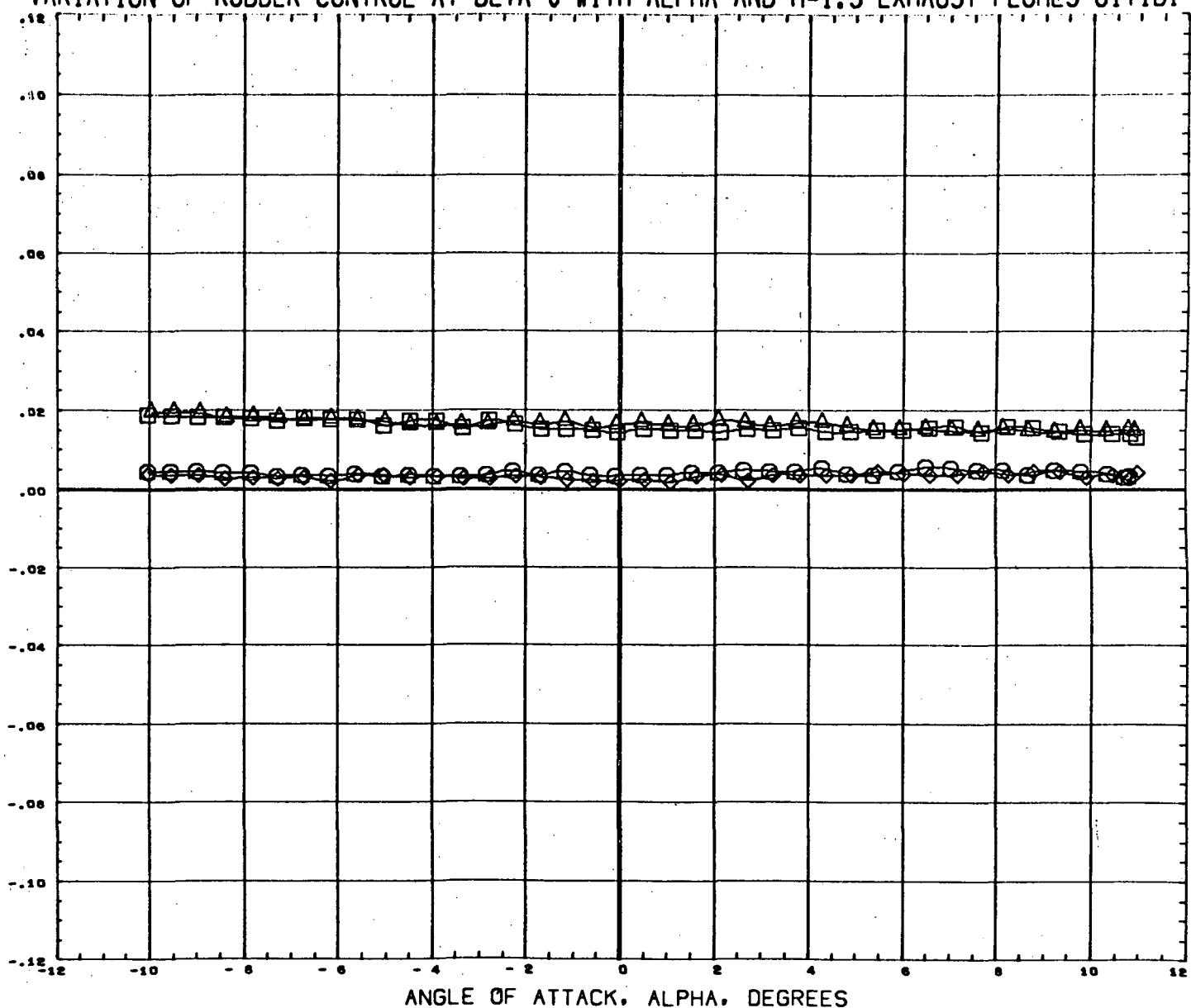


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7526)	MDAC S-222 COMPOSITE(T-CG) OITIB1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7536)	MDAC S-222 COMPOSITE(T-CG) OITIB1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7538)	MDAC S-222 COMPOSITE(T-CG) OITIB1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7542)	MDAC S-222 COMPOSITE(T-CG) OITIB1+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
					YMRP 0.0000 IN.	ZMRP 200.0004 IN.
					SCALE 0.0060	

VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=1.5 EXHAUST PLUMES O1T1B1

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

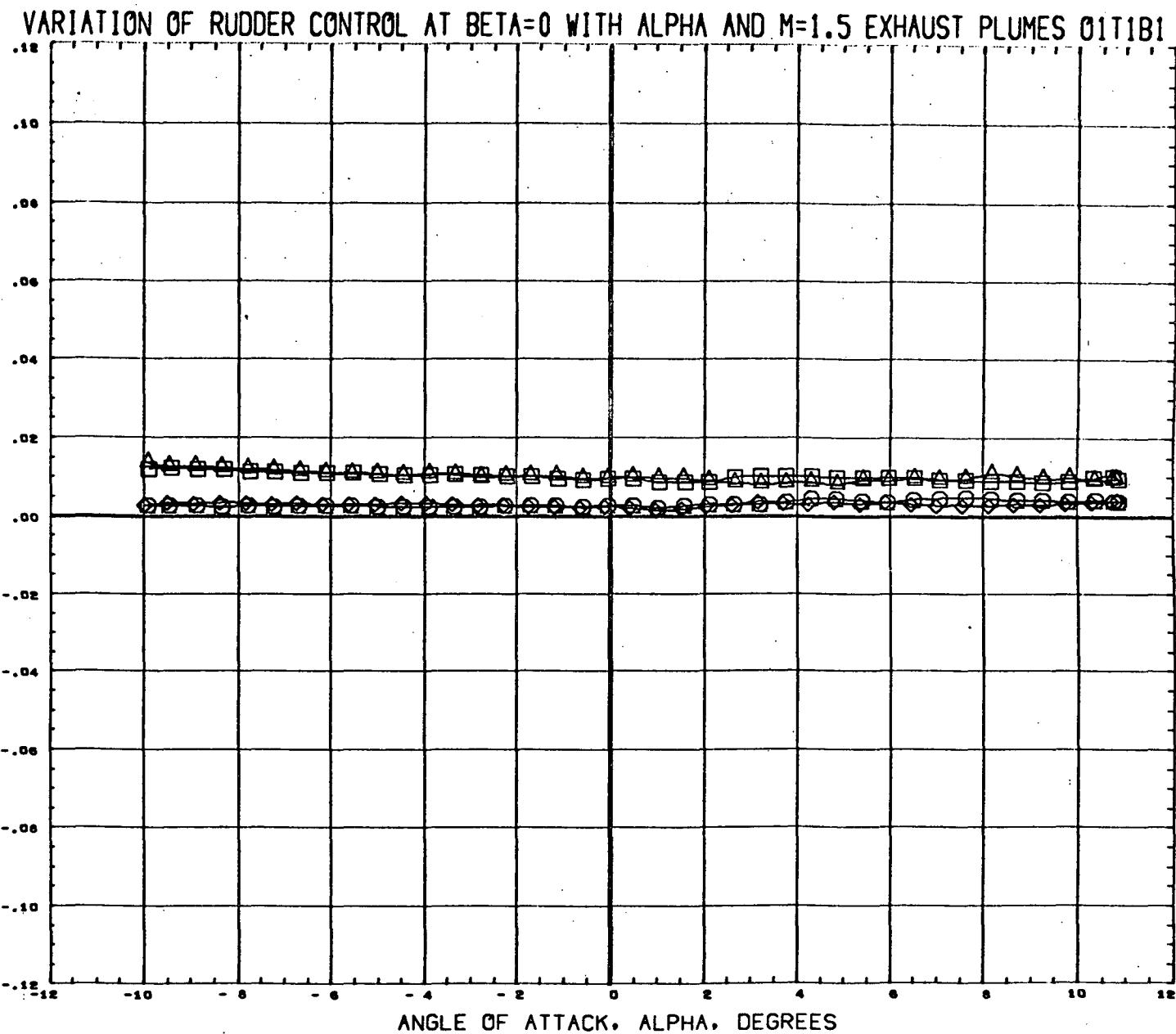


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	SQ.FT.
(RD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	3155.3040	IN.
(RD7536)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF	609.5004
(RD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF	882.0004
(RD7542)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP	557.0004
						YMRP	0.0000
						ZMRP	200.0004
						SCALE	0.0060

MACH 1.51

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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

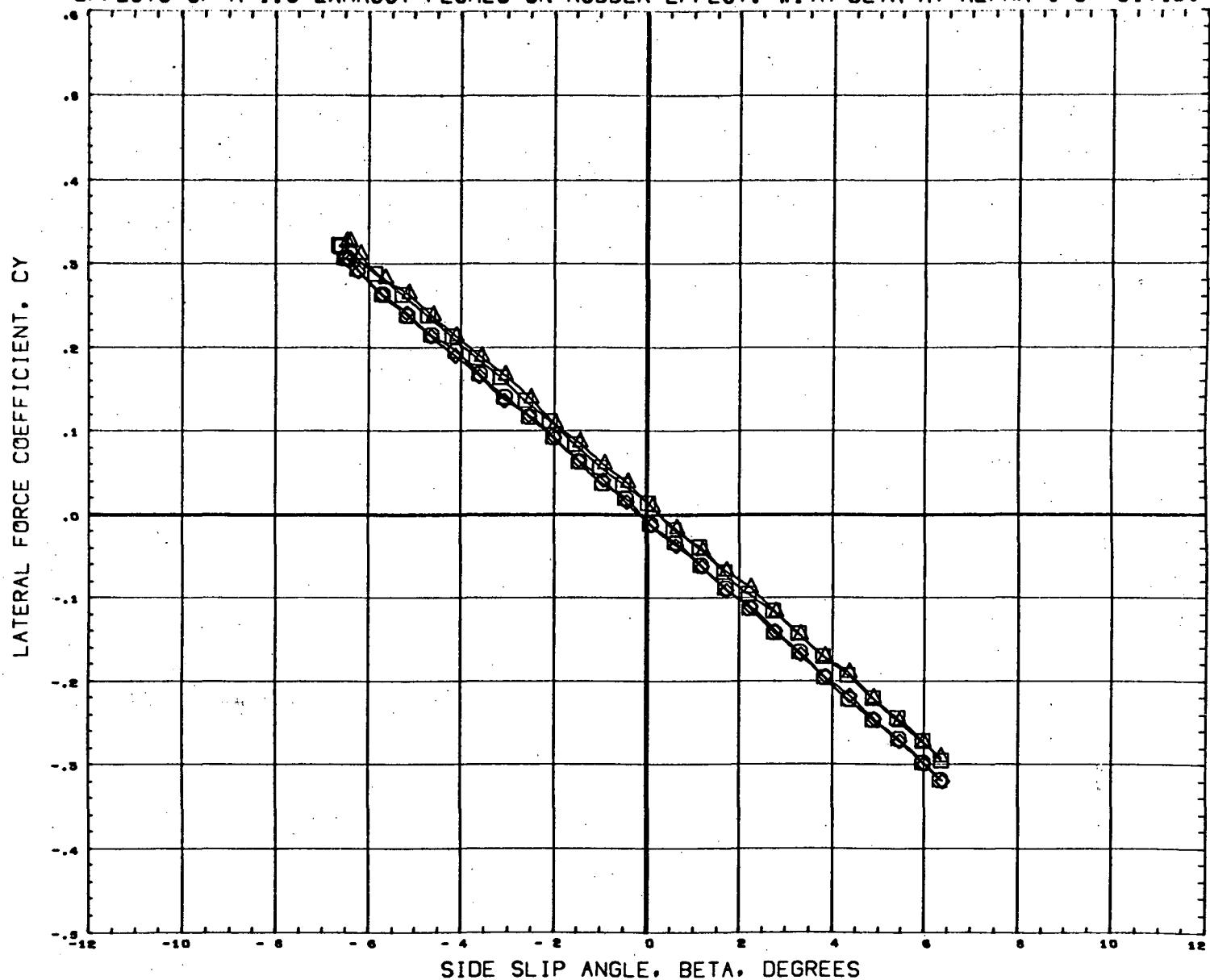


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7528)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7536)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7538)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7542)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

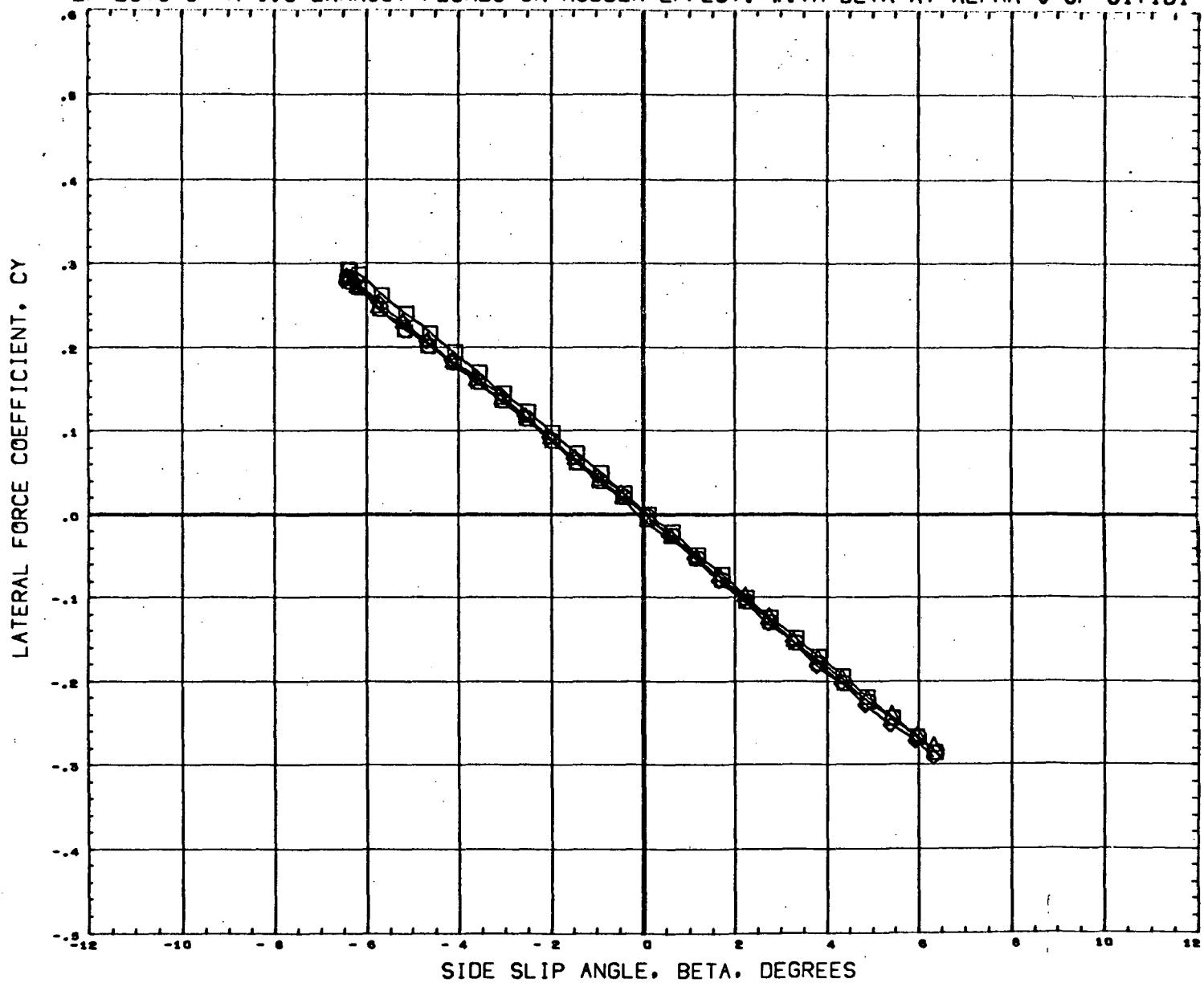
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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF 01T1B1



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7529)	○	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7537)	◇	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7539)	□	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7543)	□	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	XHMP 557.0004 IN.
							YHMP 0.0000 IN.
							ZHMP 200.0004 IN.
							SCALE 0.0060

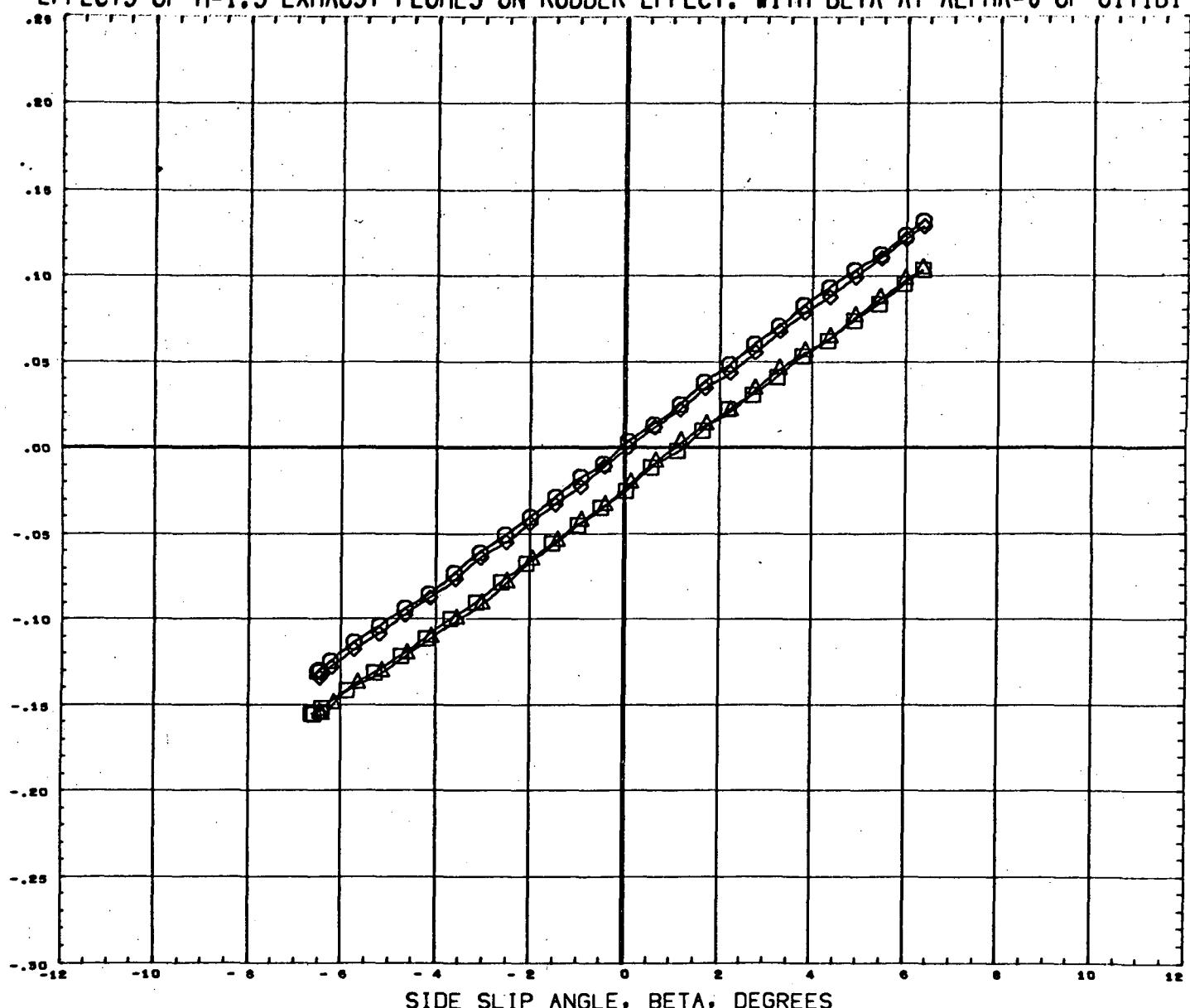
EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF 01T1B1



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
						SREF	3155.3040	SL.FT.
(RD7529)	MDAC S-222 COMPOSITE(T-CG) 01T1B1	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
(RD7537)	MDAC S-222 COMPOSITE(T-CG) 01T1B1	0.000	0.000	0.000	10.000	BREF	862.0004	IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	XMRP	557.0004	IN.
(RD7543)	MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF O1TIB1

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

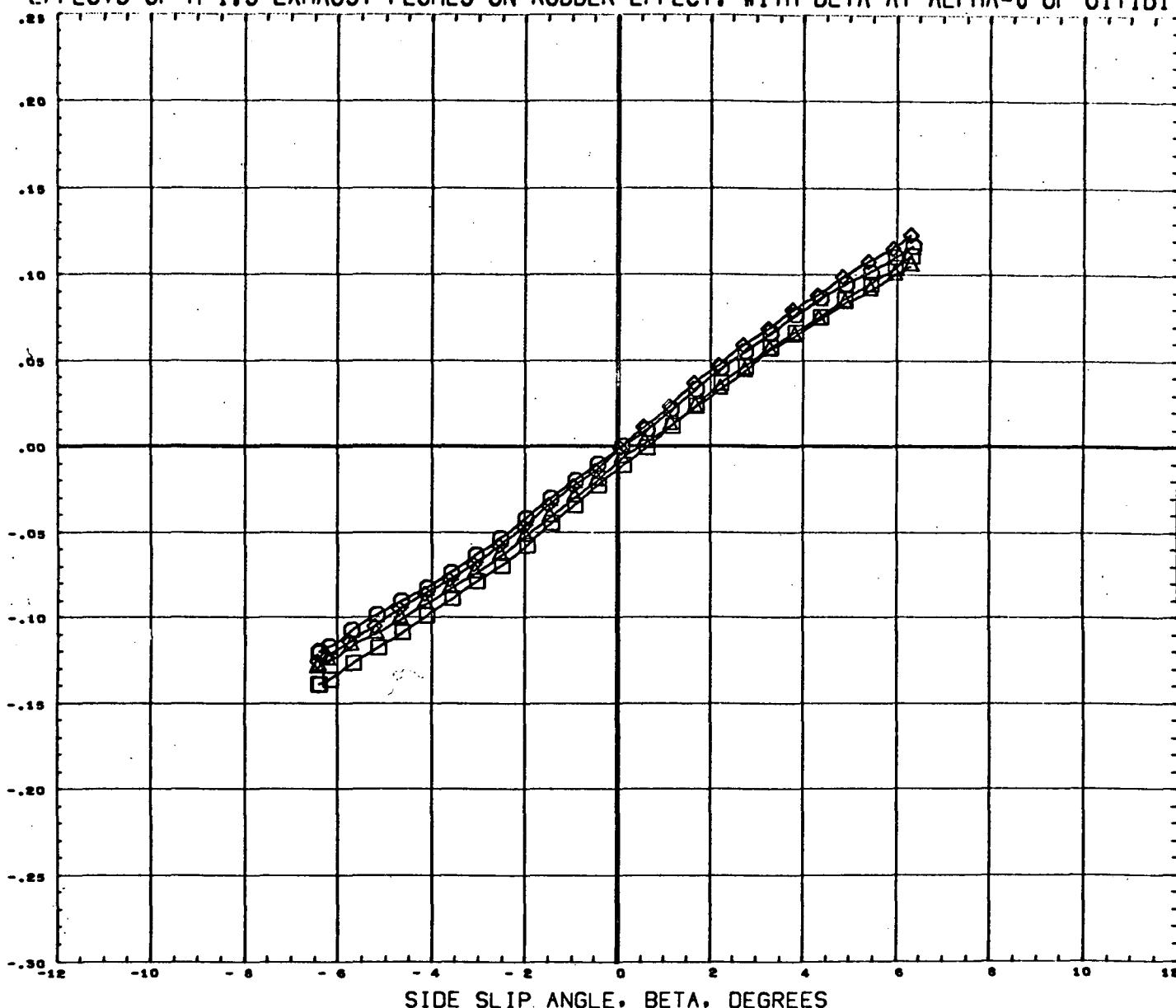
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	ZREF
(RD7529)	○ MDAC S-222 COMPOSITE(T-CG) O1TIB1	0.000	0.000	0.000	0.000	3155.3040	50.FT.
(RD7537)	△ MDAC S-222 COMPOSITE(T-CG) O1TIB1	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(RD7539)	◇ MDAC S-222 COMPOSITE(T-CG) O1TIB1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF	682.0004 IN.
(RD7543)	□ MDAC S-222 COMPOSITE(T-CG) O1TIB1+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF O1T1B1

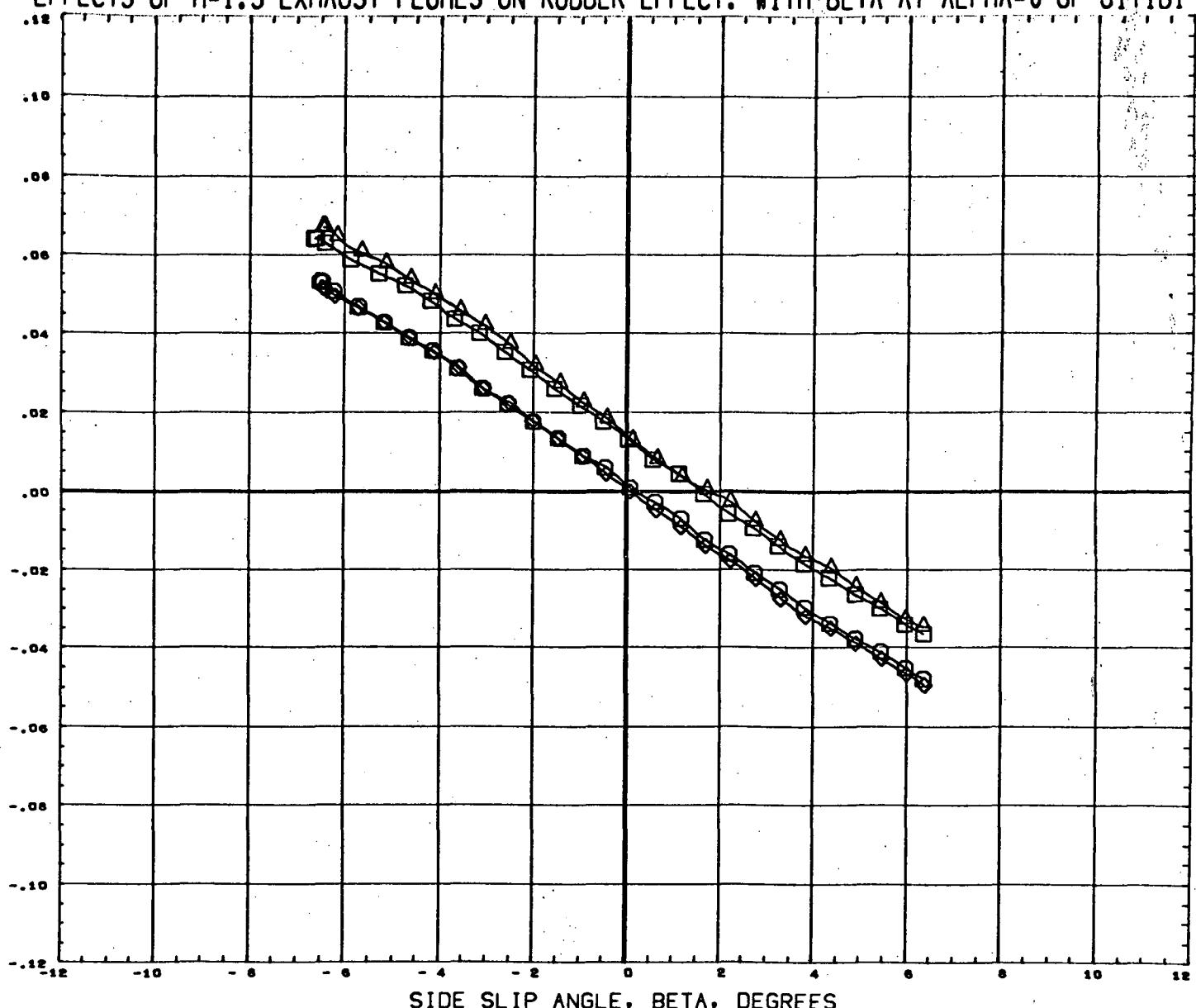
YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7531)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7543)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF O1T1B1

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

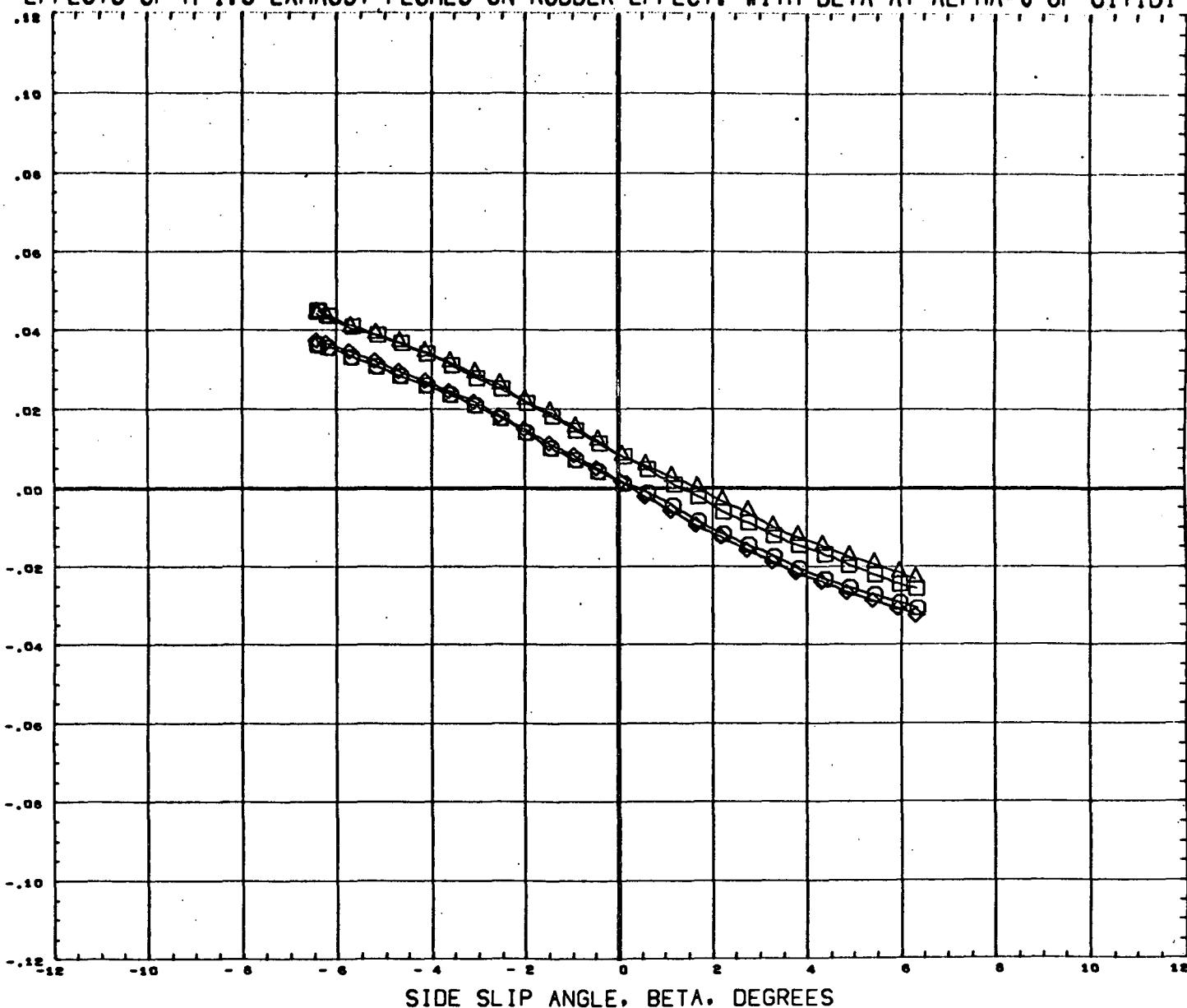
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7537)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7543)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF O1T1B1

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

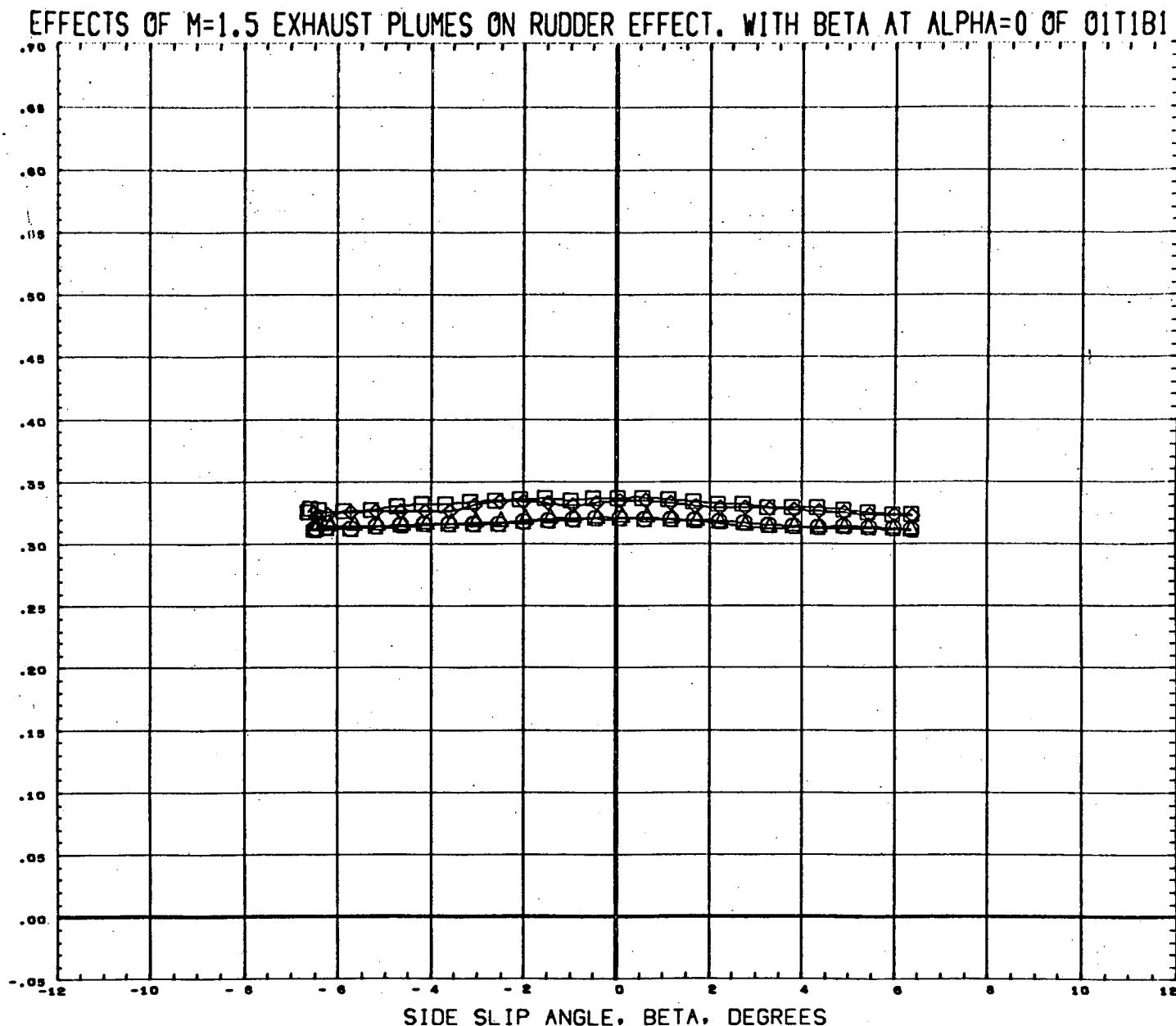


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7537)	MDAC S-222 COMPOSITE (T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF 662.0004 IN.
(RD7543)	MDAC S-222 COMPOSITE (T-CG) O1T1B1+PLUME (1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP -200.0004 IN.
						SCALE 0.0060

MACH 2.20

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FOREBODY AXIAL FORCE COEFFICIENT. CAF



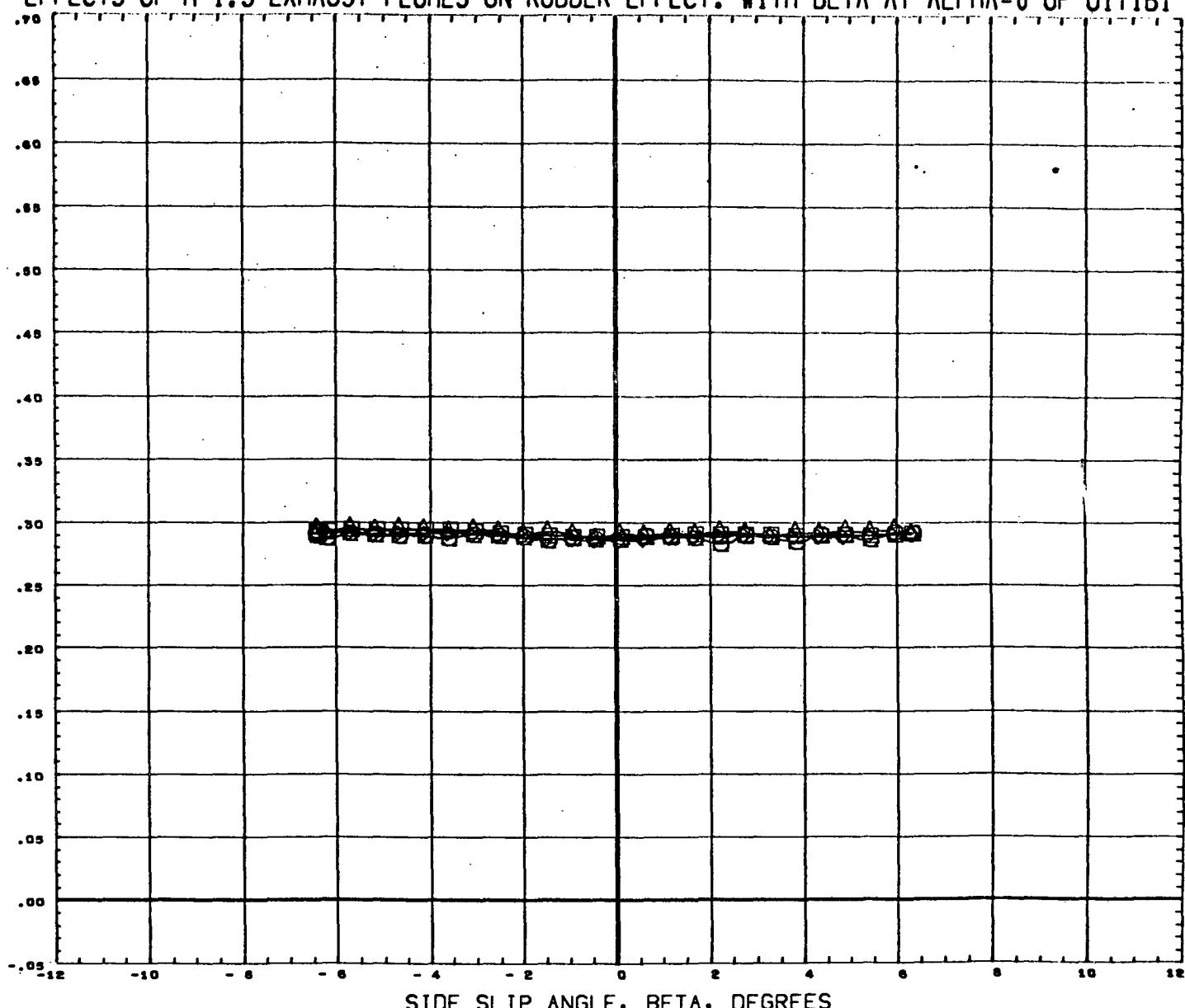
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7537)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7543)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	XHRP 557.0004 IN.
						YHRP 0.0000 IN.
						ZHRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF O1T1B1

FOREBODY AXIAL FORCE COEFFICIENT. CAF



SIDE SLIP ANGLE, BETA, DEGREES

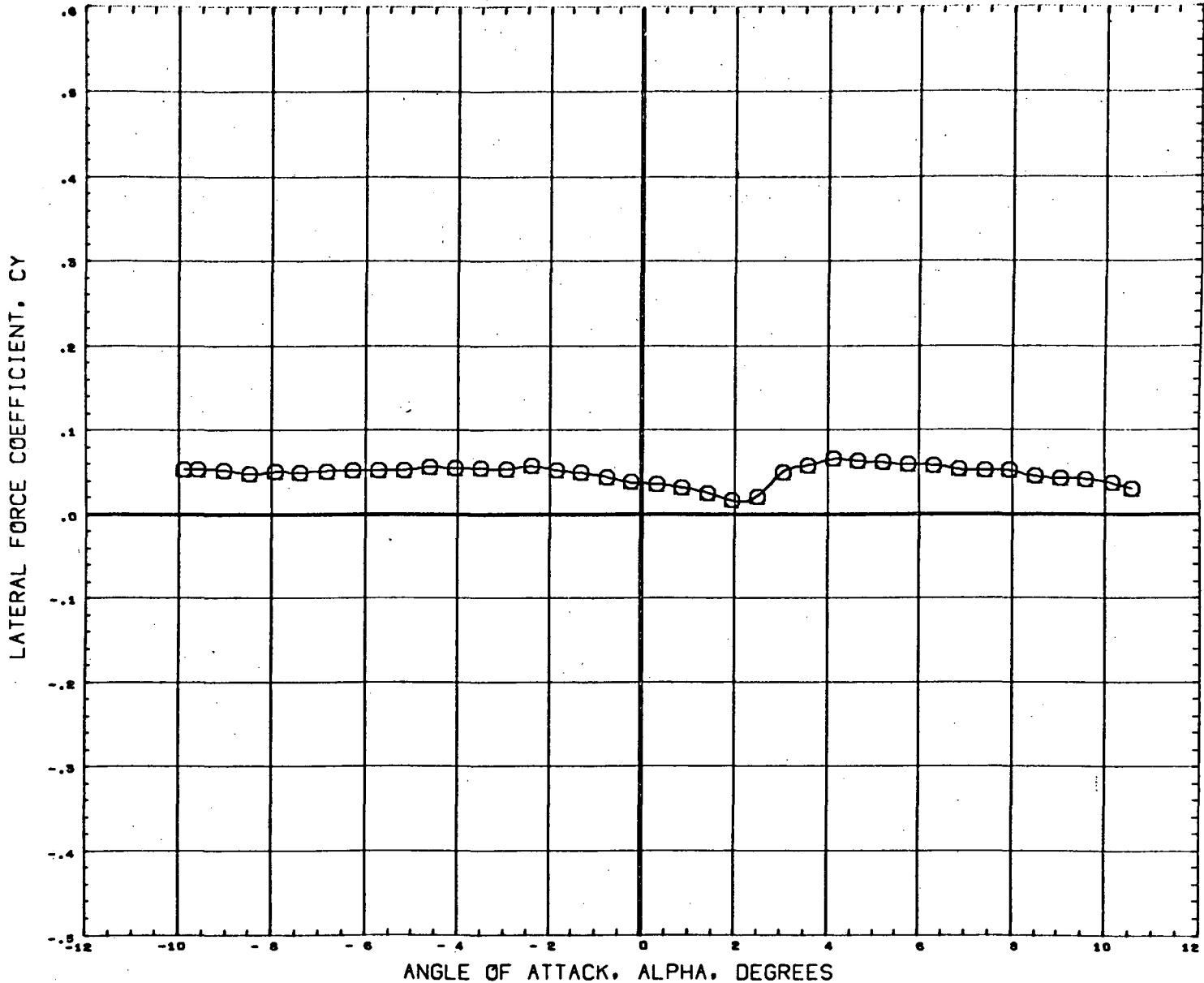
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION	
						SREF	ZREF
(RD7529)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	0.000	3155.3040	50.FT.
(RD7537)	MDAC S-222 COMPOSITE(T-CG) O1T1B1	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(RD7539)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF	862.0004 IN.
(RD7543)	MDAC S-222 COMPOSITE(T-CG) O1T1B1+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH

2.20

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LAT-DIR. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES			
O	2.203	BETA	0.000	AILRDN	0.000
		ELEVTR	0.000	RUDDER	10.000

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

DATA HIST. CODE

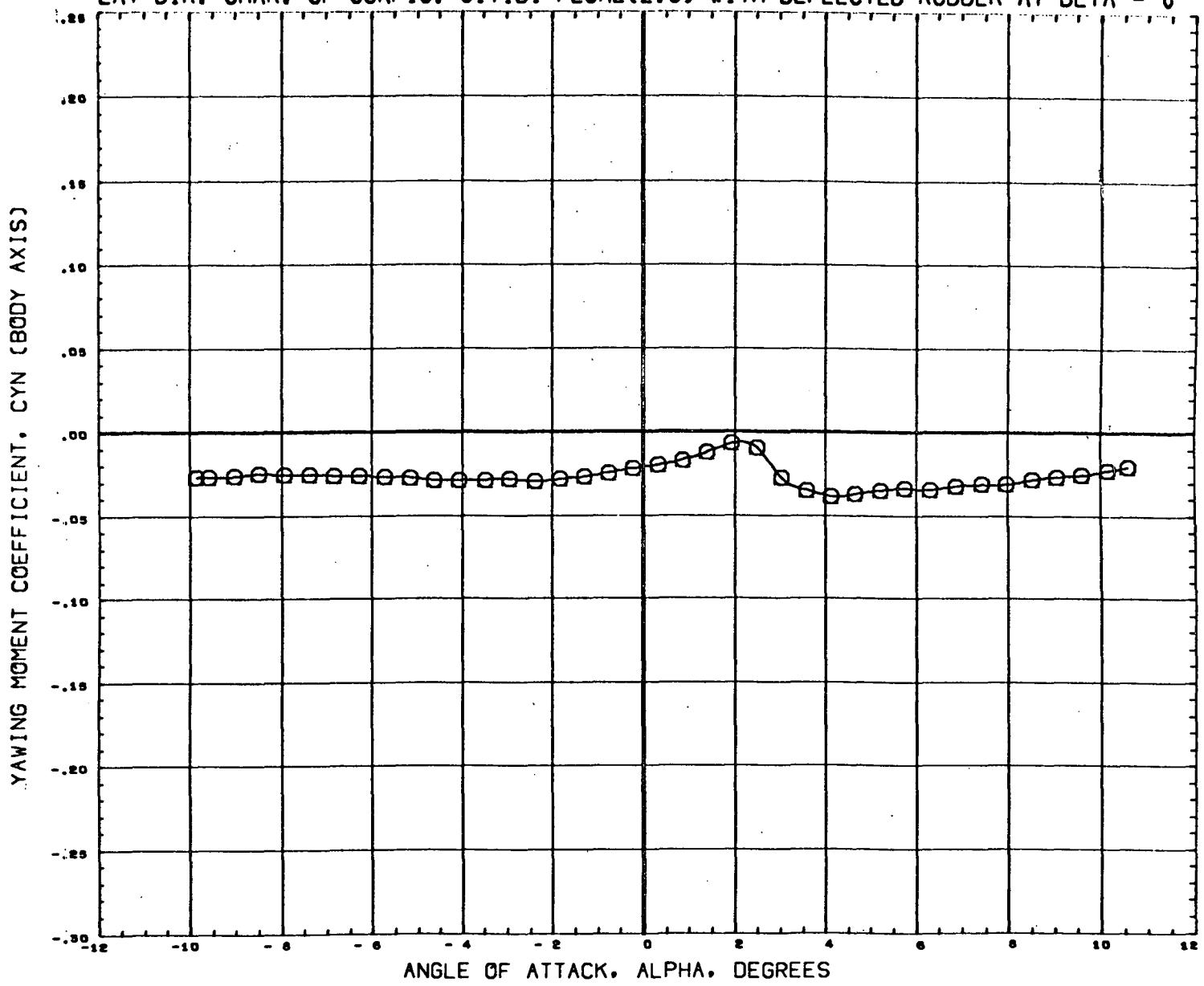
MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(RD7510) 18 SEP 72

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LAT-DIR. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0



SYMBOL MACH PARAMETRIC VALUES
 O 2.203 BETA 0.000 AILRDN 0.000
 ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

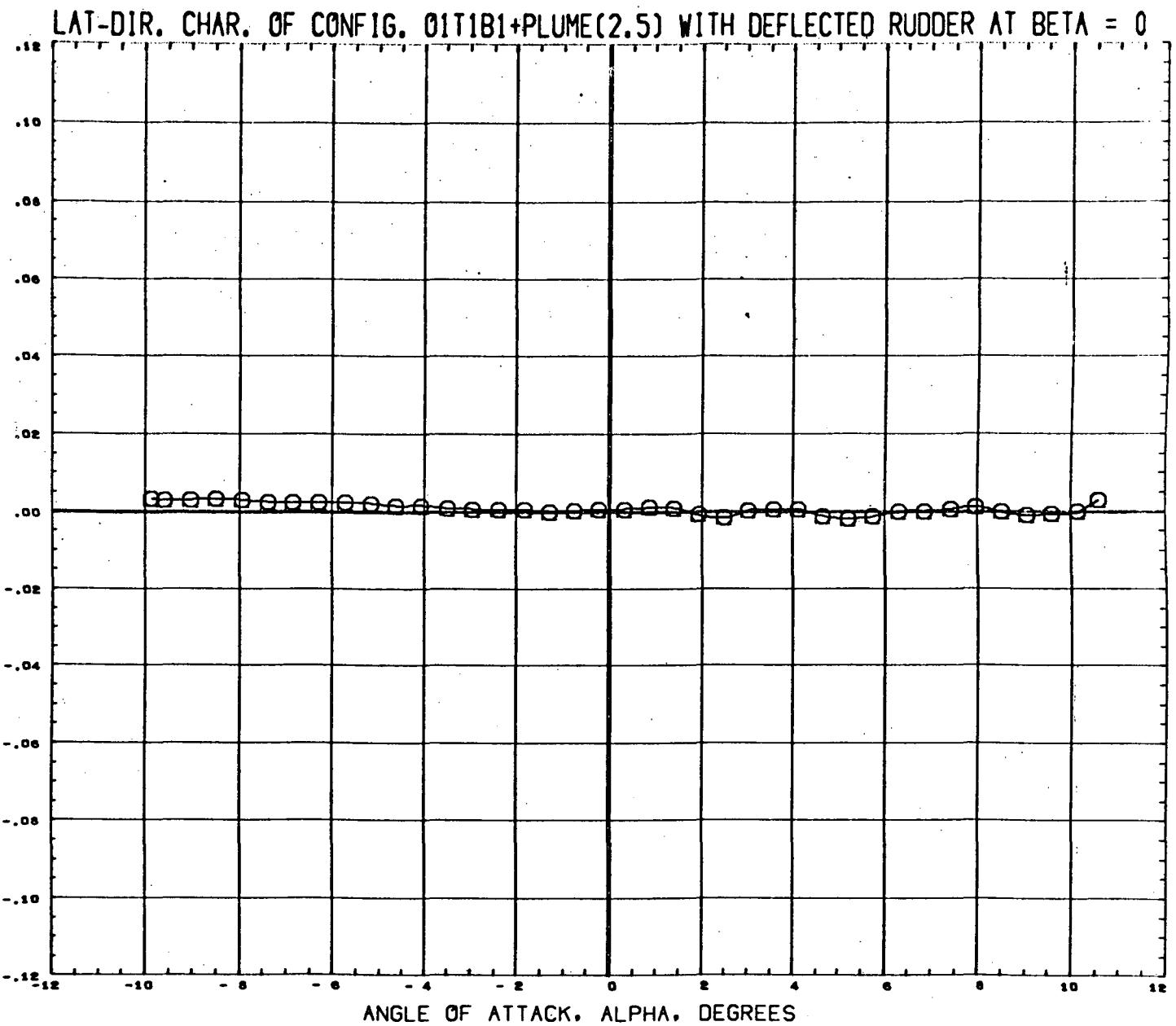
DATA HIST. CODE MV

MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(RD7510) 18 SEP 72

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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



SYMBOL MACH PARAMETRIC VALUES
Q 2.203 BETA 0.000 AILERON 0.000
ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
SREF 3155.3040 SQ.FT.
LREF 609.5004 IN.
BREF 662.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

DATA HIST. CODE MV

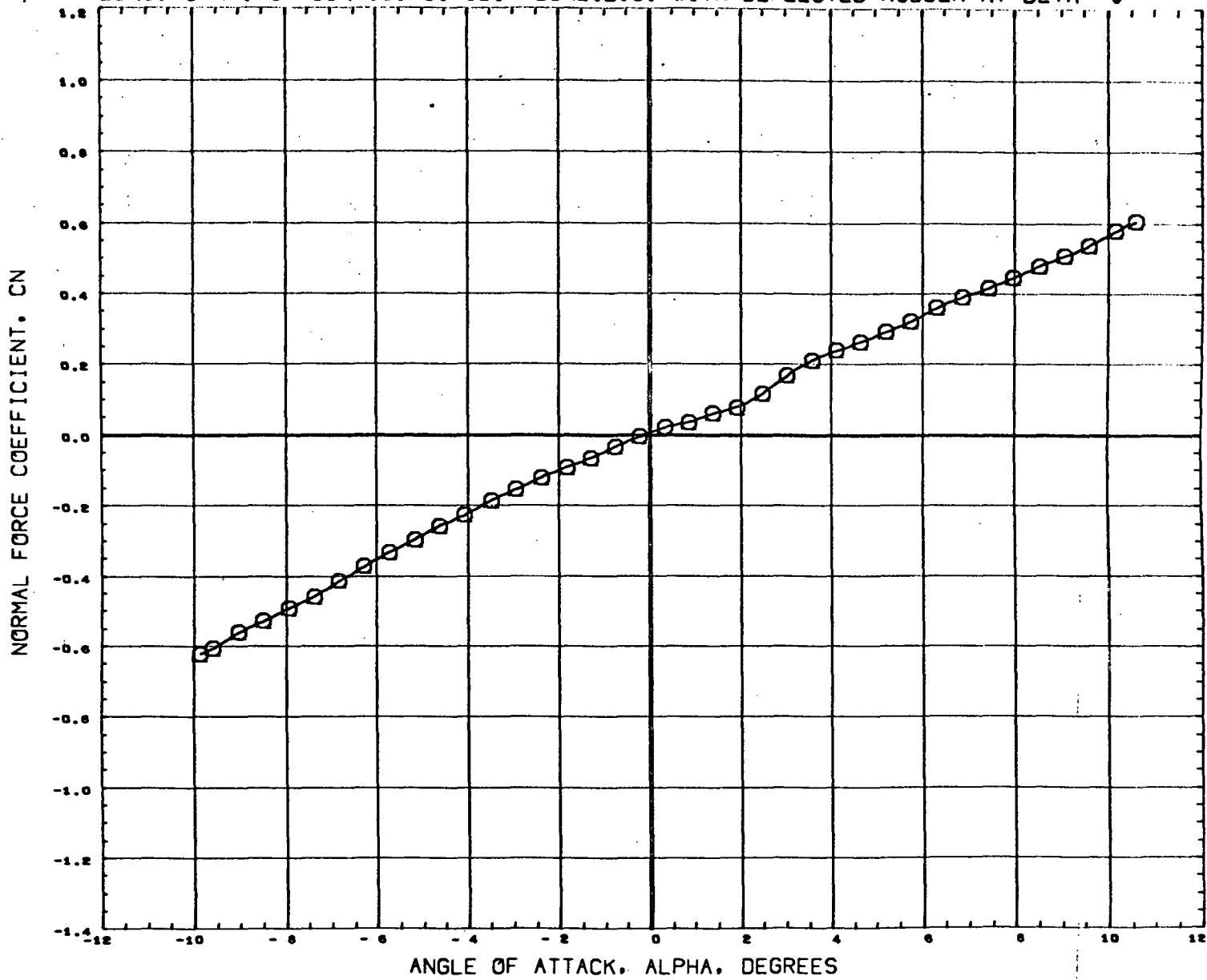
MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(RD7510) 18 SEP 72

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LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0



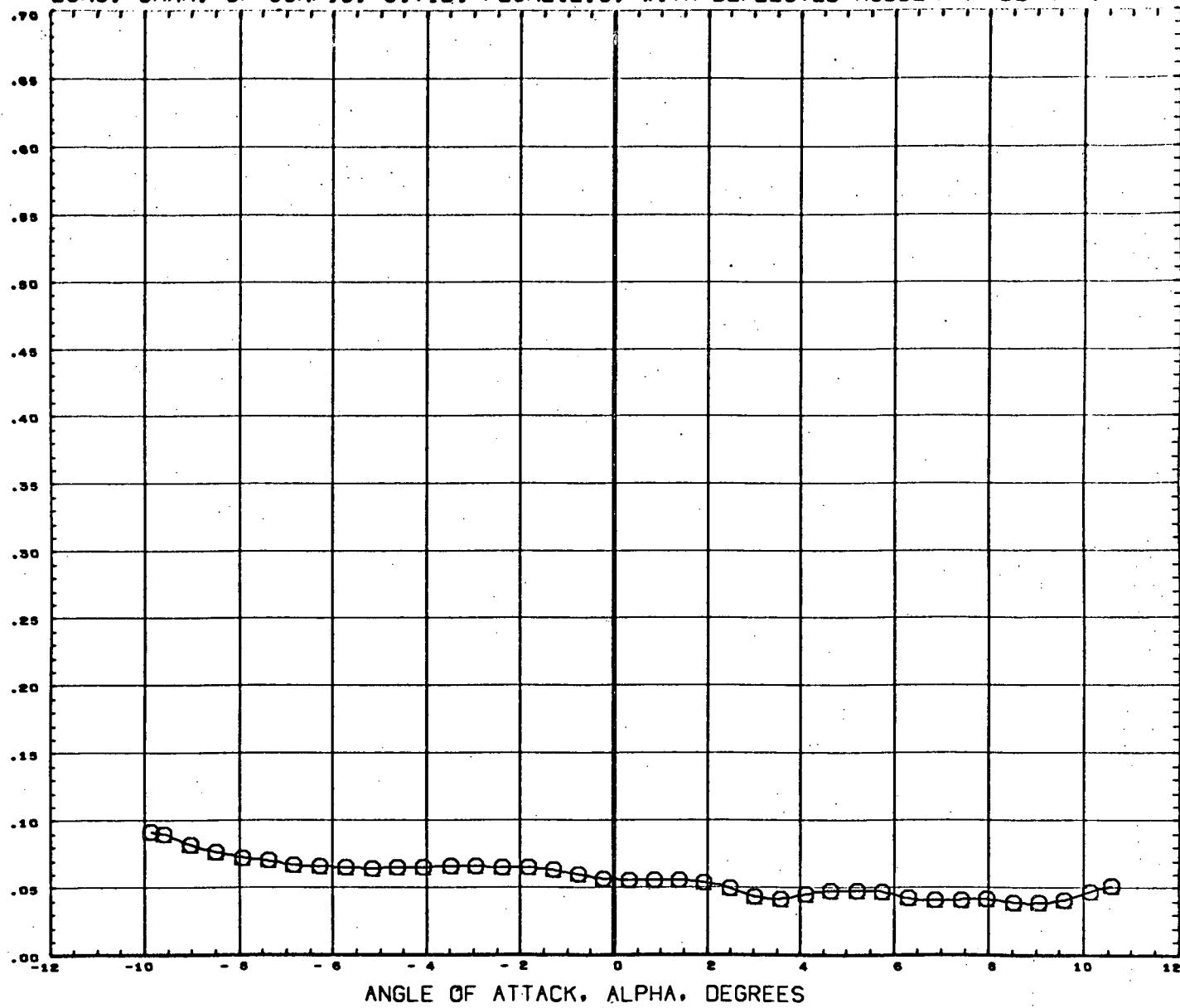
SYMBOL MACH PARAMETRIC VALUES
 ○ 2.203 BETA 0.000 AILRON 0.000
 ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 682.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

DATA MIST. CODE MVTY

LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0

AXIAL FORCE COEFFICIENT, CA



SYMBOL MACH PARAMETRIC VALUES
□ 2.203 BETA 0.000 AILRON 0.000
 ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

DATA HIST. CODE NYTV

MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

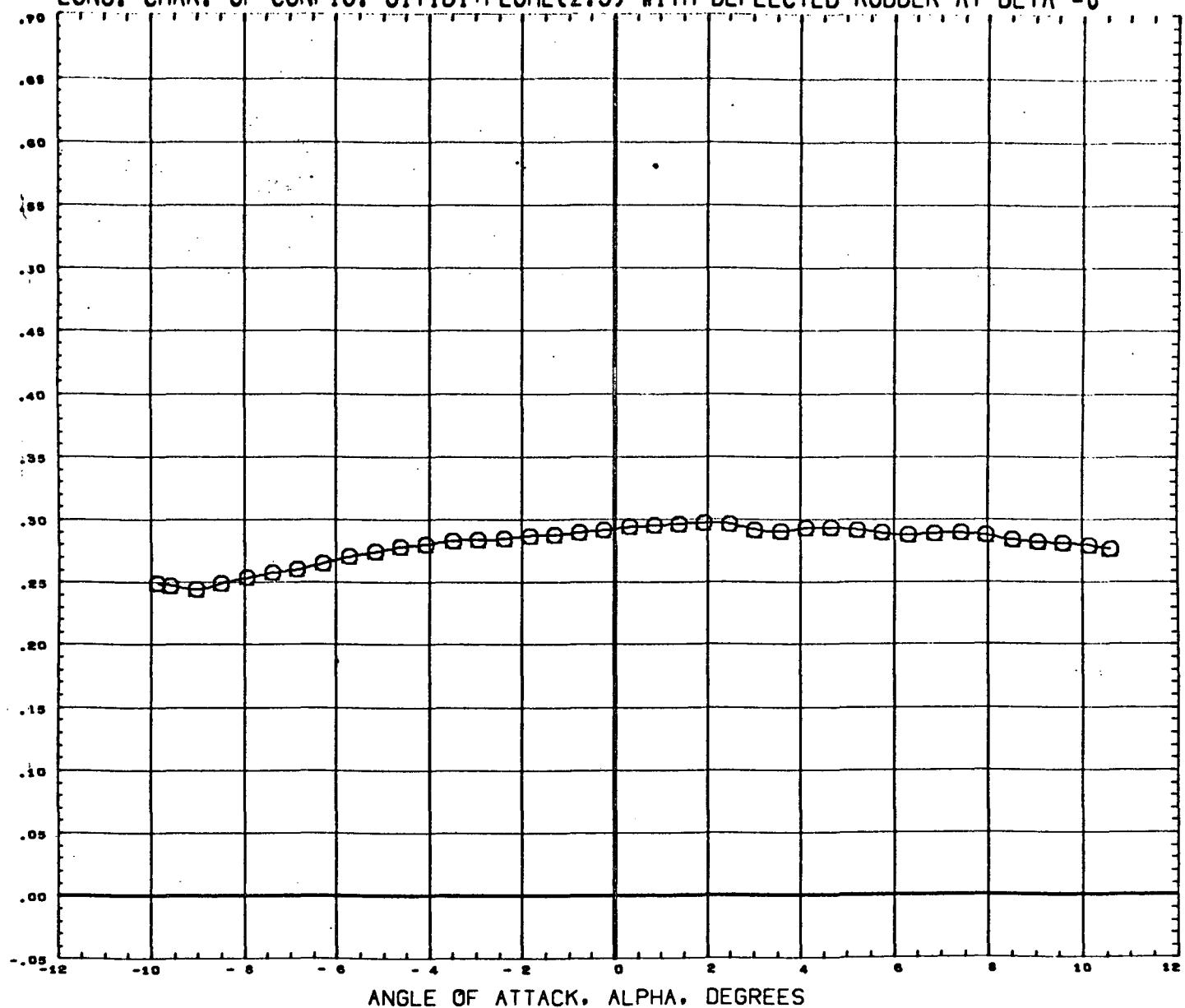
(CD7510) 18 SEP 72

PAGE

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LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF



SYMBOL MACH PARAMETRIC VALUES
□ 2.203 BETA 0.000 AILRON 0.000
 ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 662.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

DATA HIST. CODE MVT

MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

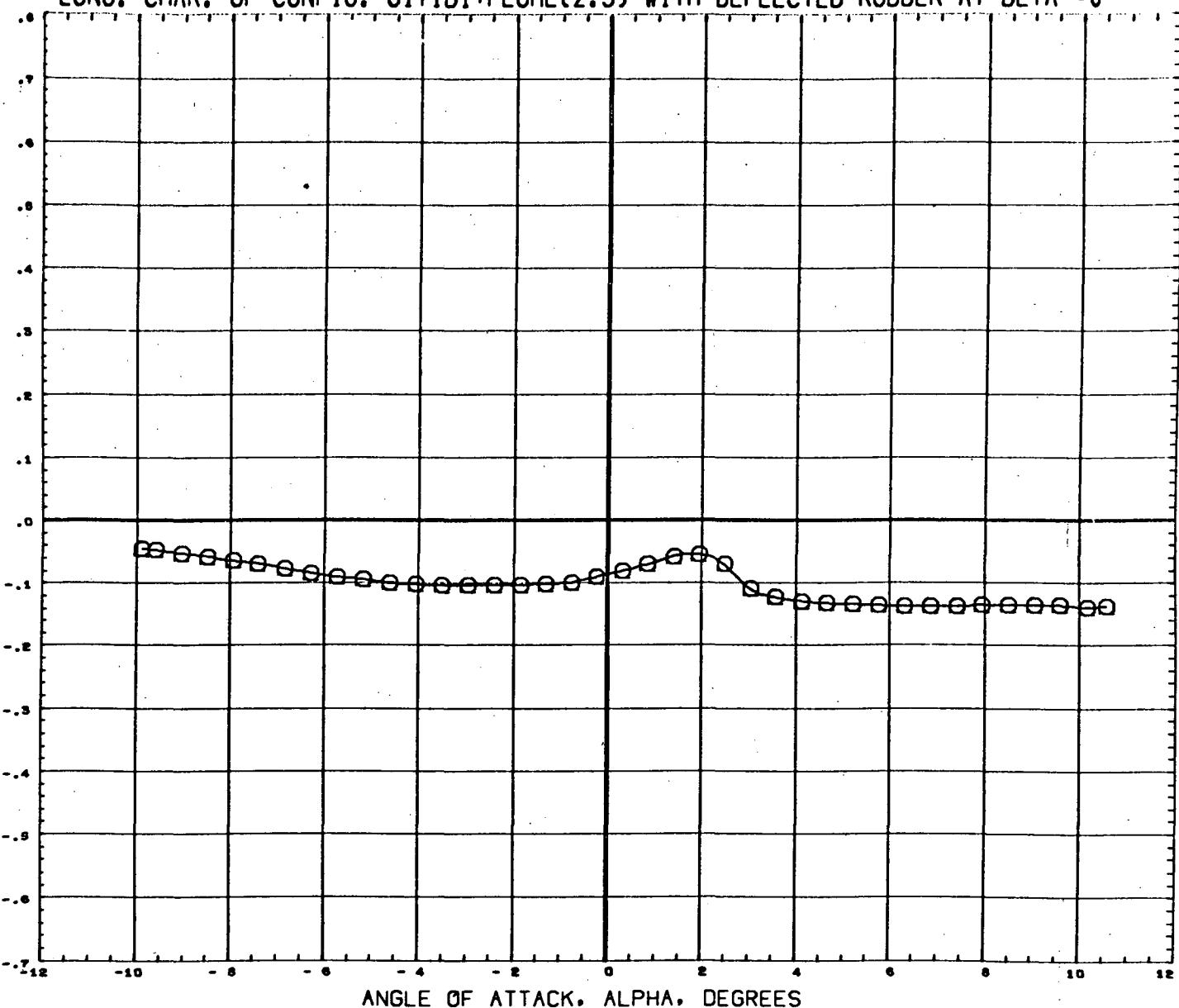
(CD7510) 18 SEP 72

PAGE

98

LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0

PITCHING MOMENT COEFFICIENT, CLM

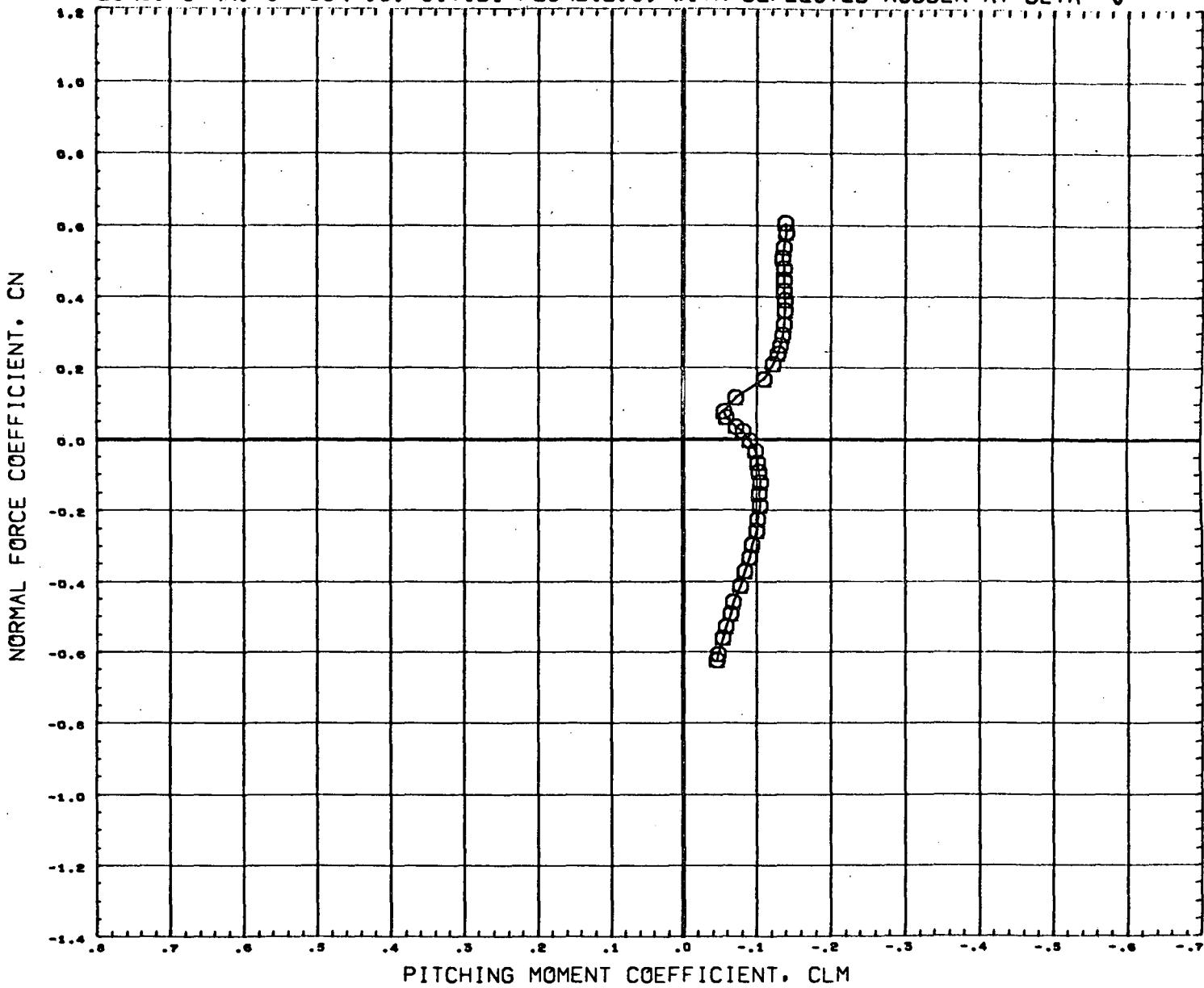


SYMBOL MACH PARAMETRIC VALUES
○ 2.203 BETA 0.000 AILRON 0.000
 ELEVTR 0.000 RUDDER 10.000

DATA HIST. CODE MTV

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRF 557.0004 IN.
 YMRF 0.0000 IN.
 ZMRF 200.0004 IN.
 SCALE 0.0060

LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0



SYMBOL MACH PARAMETRIC VALUES
 O 2.203 BETA 0.000 AILRON 0.000
 ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 862.0004 IN.
 XNRP 557.0004 IN.
 YNRP 0.0000 IN.
 ZNRP 200.0004 IN.
 SCALE 0.0060

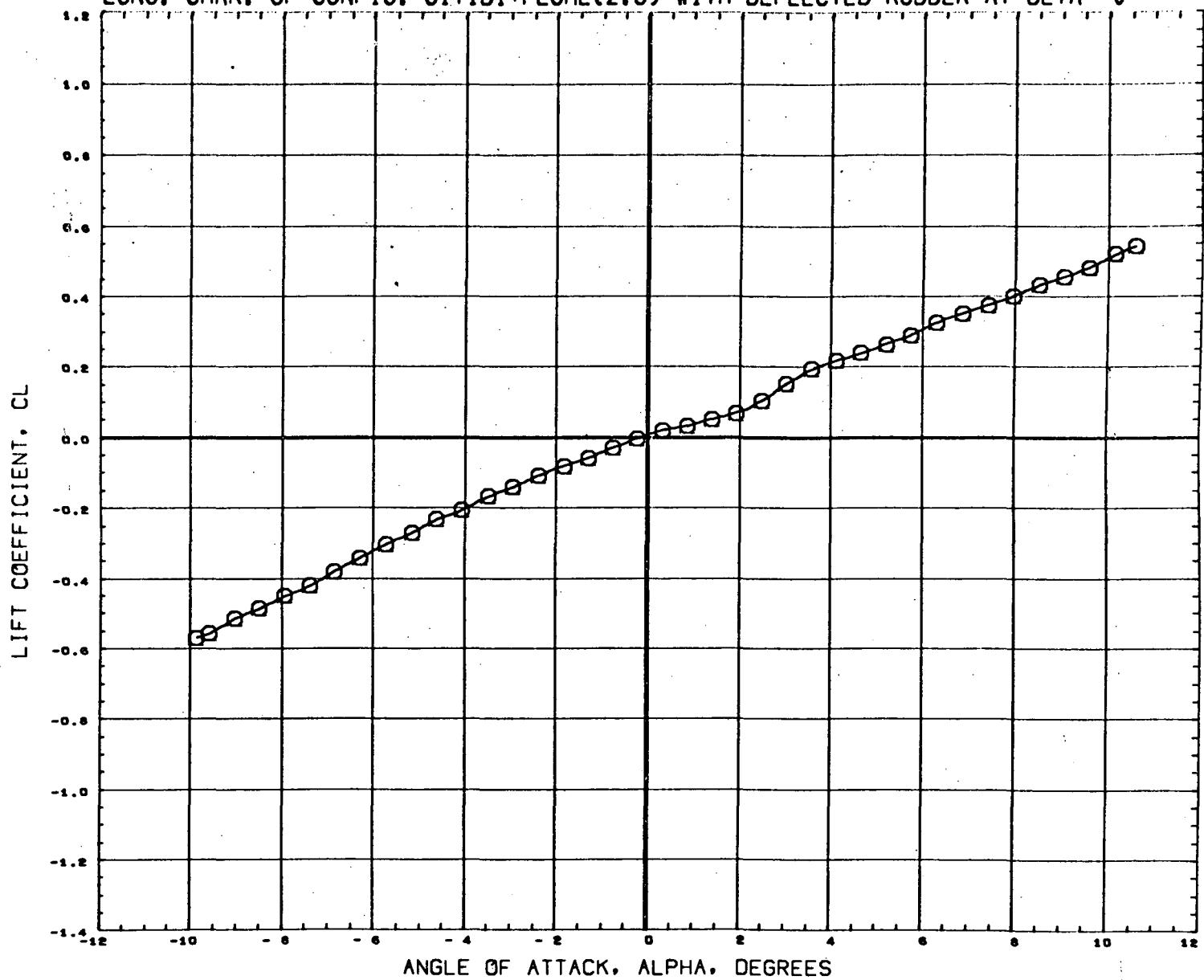
DATA HIST. CODE MVTV

MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(CD7510) 18 SEP 72

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LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0



SYMBOL MACH PARAMETRIC VALUES
○ 2.203 BETA 0.000 AILRDN 0.000
 ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
 SREF 3155.3040 SG.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

DATA HIST. CODE MVTY

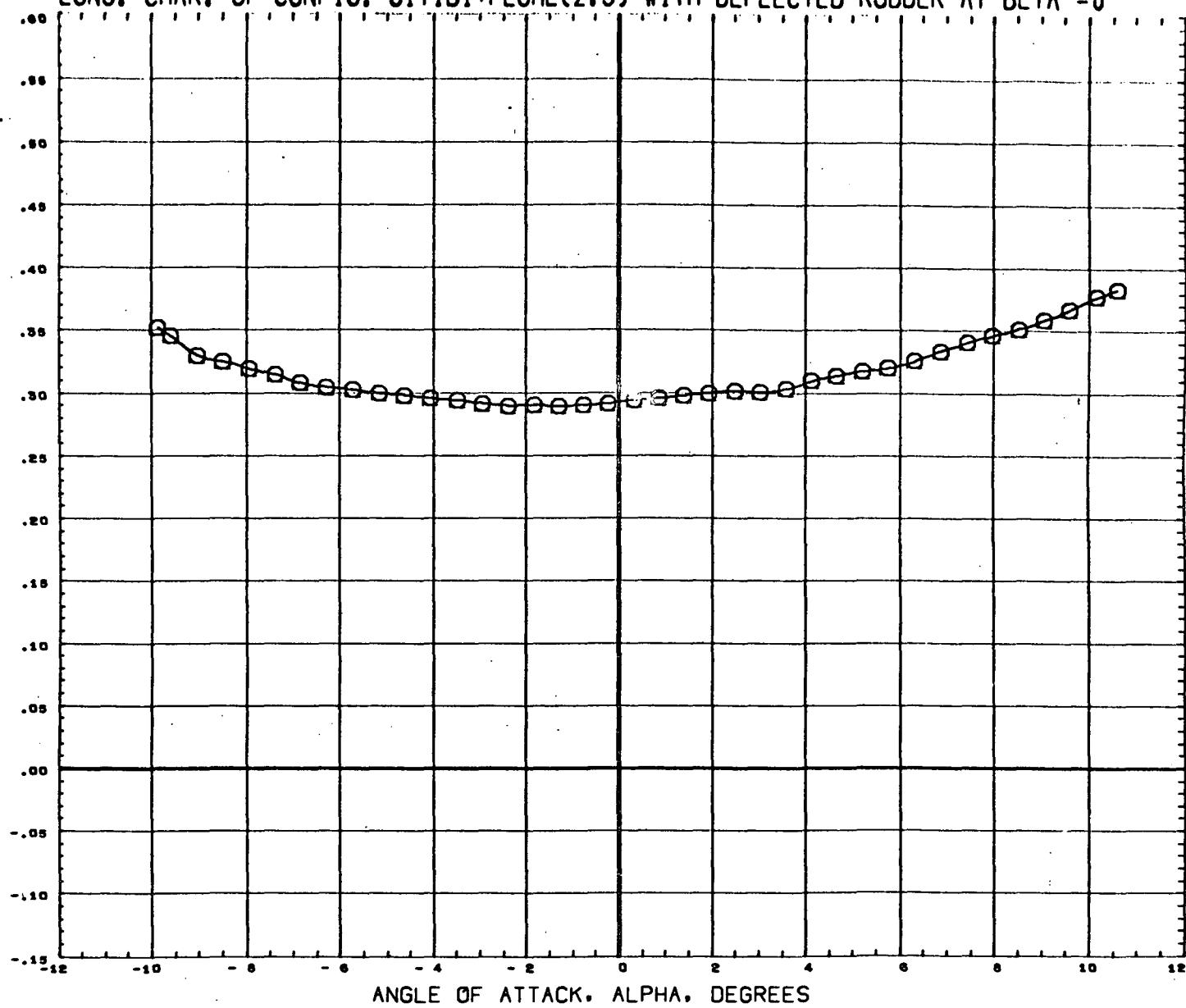
MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(CD7510) 18 SEP 72

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FOREBODY DRAG COEFFICIENT. CDF

LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0



SYMBOL MACH PARAMETRIC VALUES
○ 2.203 BETA 0.000 AILRON 0.000
ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
SREF 3155.3040 SQ.FT.
LREF 609.5004 IN.
BREF 662.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

DATA HIST. CODE MVTV

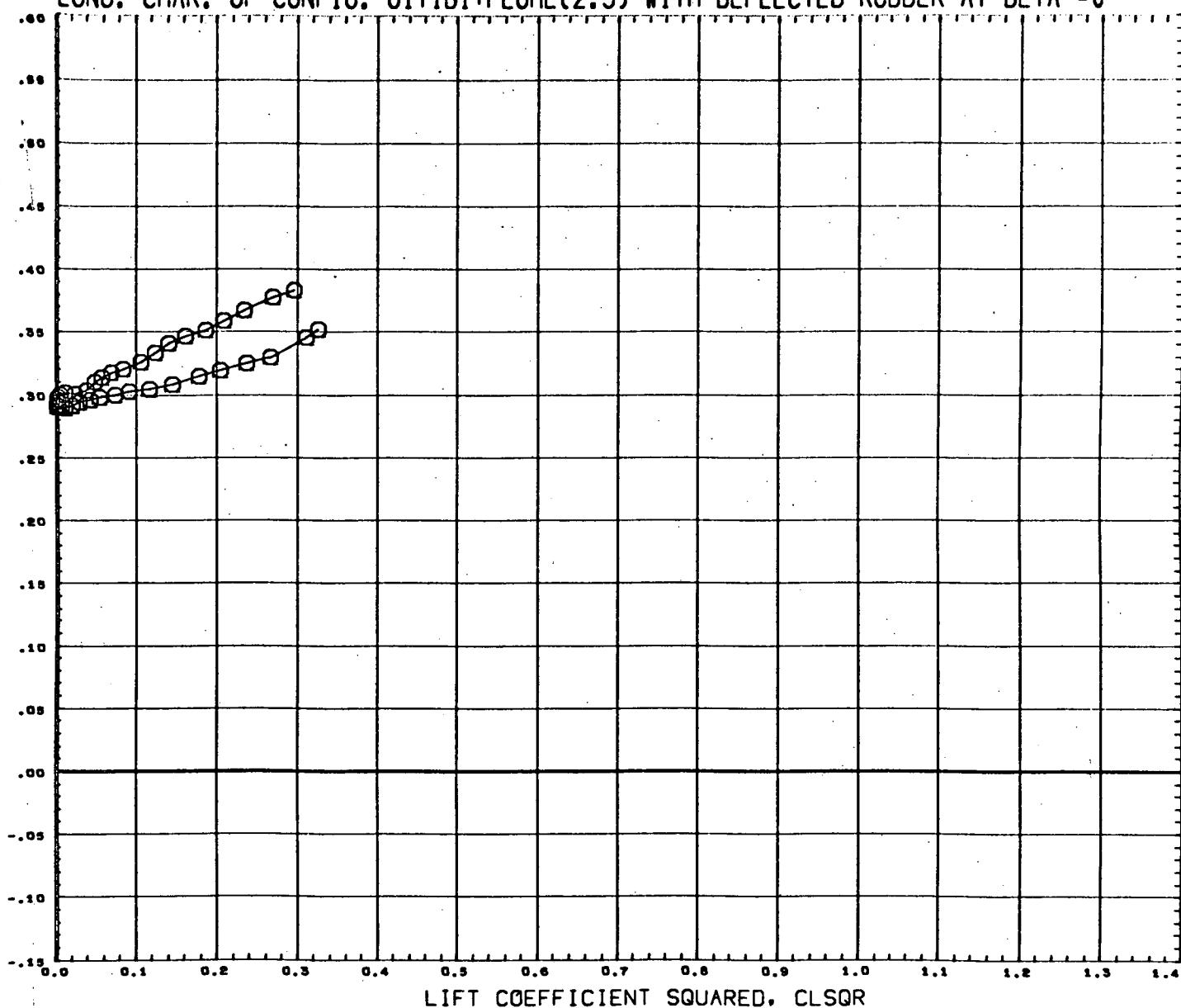
MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(CD7510) 18 SEP 72

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LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0

FOREBODY DRAG COEFFICIENT, COF



SYMBOL MACH PARAMETRIC VALUES
O 2.203 BETA 0.000 AILRON 0.000
ELEVTR 0.000 RUDDER 10.000

LIFT COEFFICIENT SQUARED, CL²

REFERENCE INFORMATION
SREF 3155.3040. SQ.FT.
LREF 609.5004 IN.
BREF 682.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

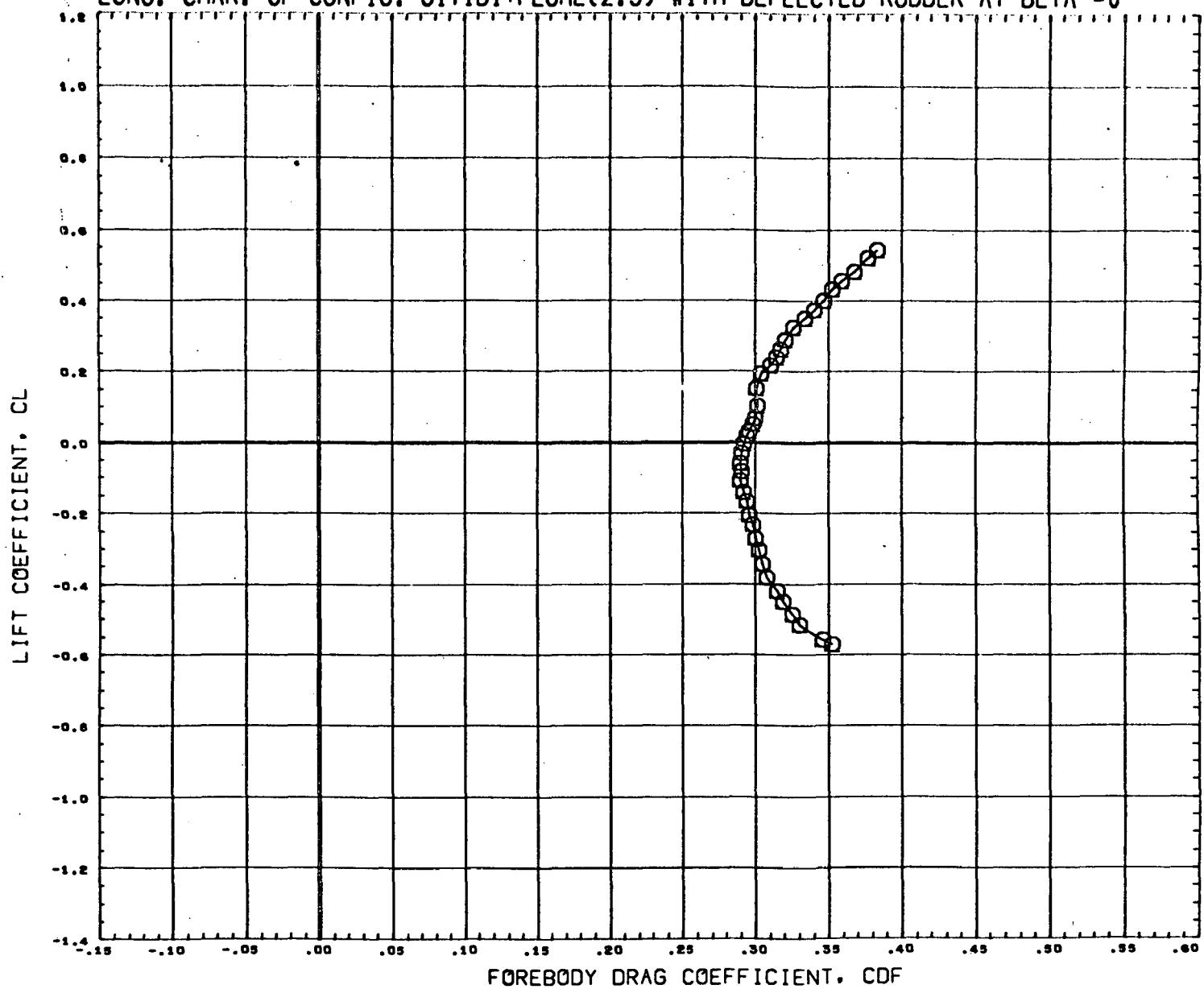
DATA HIST. CODE NVTY

MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(CD7510) 18 SEP 72

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LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA = 0



SYMBOL MACH PARAMETRIC VALUES
 O 2.203 BETA 0.000 AILRON 0.000
 ELEVTR 0.000 RUDDER 10.000

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 662.0004 IN.
 XMRF 557.0004 IN.
 YMRF 0.0000 IN.
 ZMRF 200.0004 IN.
 SCALE 0.0060

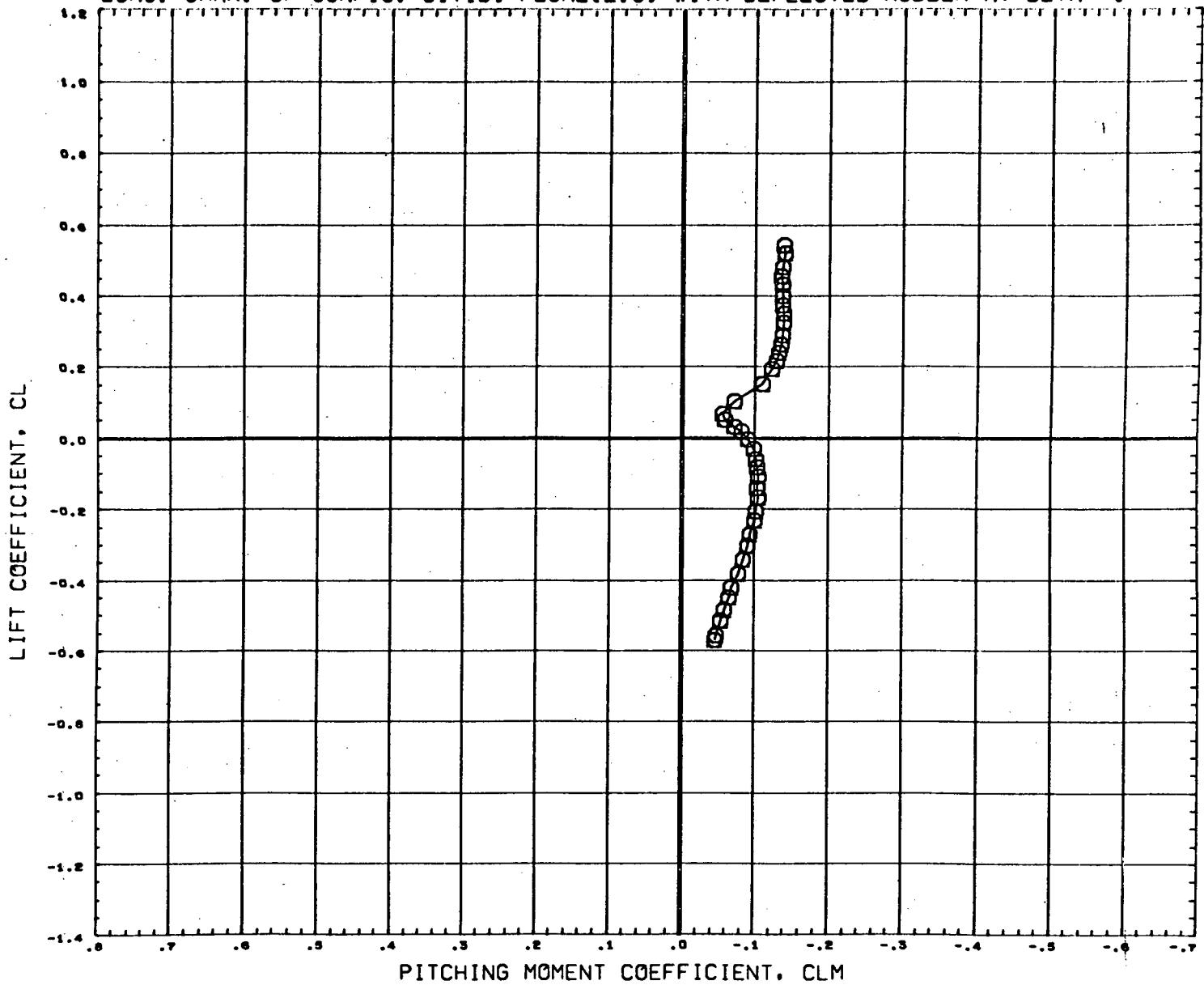
DATA HIST. CODE MVTY

MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(CD7510) 18 SEP 72

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LONG. CHAR. OF CONFIG. 01T1B1+PLUME(2.5) WITH DEFLECTED RUDDER AT BETA =0



SYMBOL	MACH	PARAMETRIC VALUES			
O	2.203	BETA	0.000	AIRLON	0.000
		ELEVTR	0.000	RUDDER	10.000

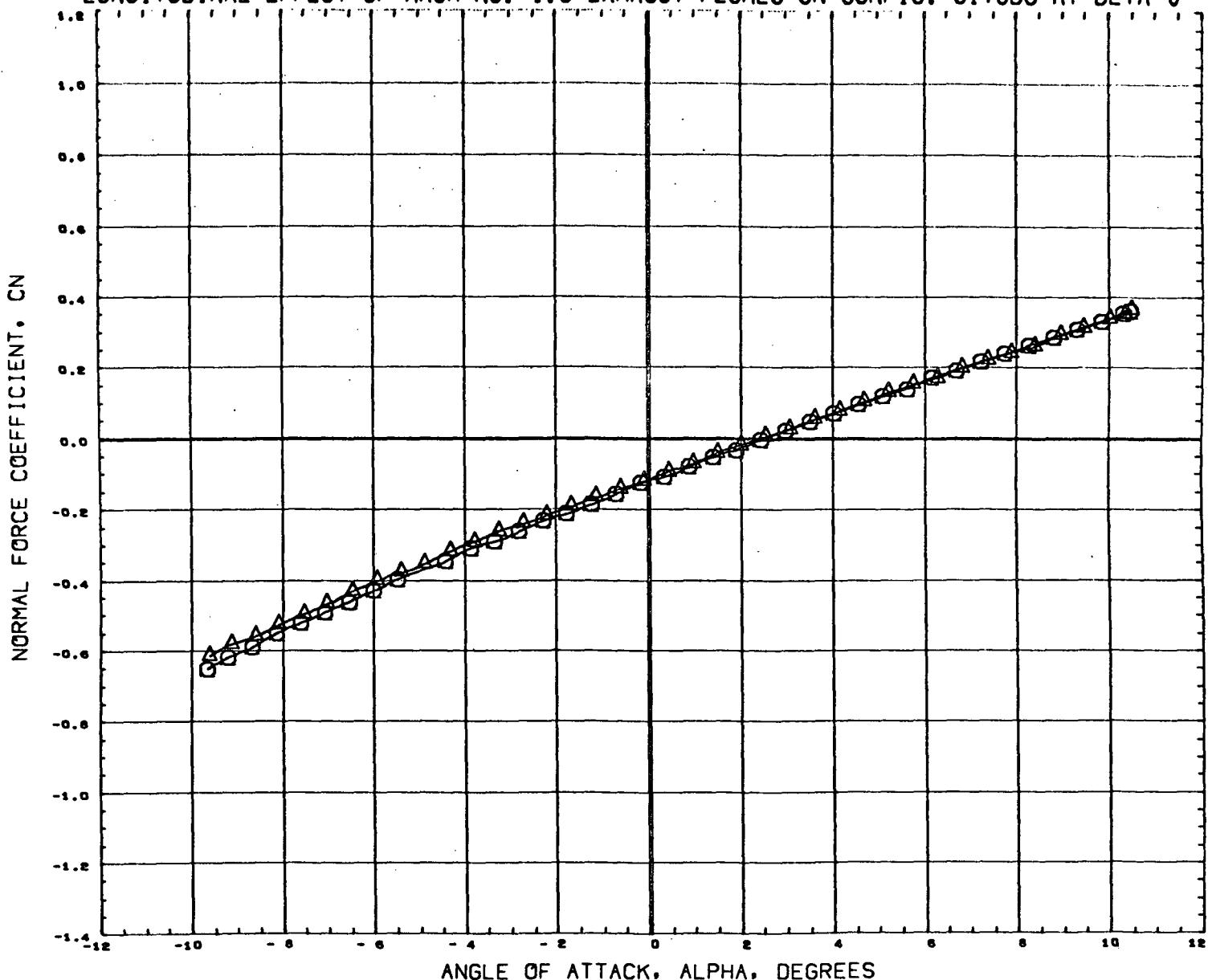
REFERENCE INFORMATION		
REF	3155.3040	SQ.FT.
REF	609.3004	IN.
REF	882.0004	IN.
H.R.P	557.0004	IN.
H.R.P	0.0000	IN.
H.R.P	200.0004	IN.
CALE	0.0000	

DATA HIST. CODE MVTY

MDAC S-222 COMPOSITE(T-CG) 01T1B1+PLUME(2.5)

(CD7510) 18 SEP 72 PAGE 105

LONGITUDINAL EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA=0



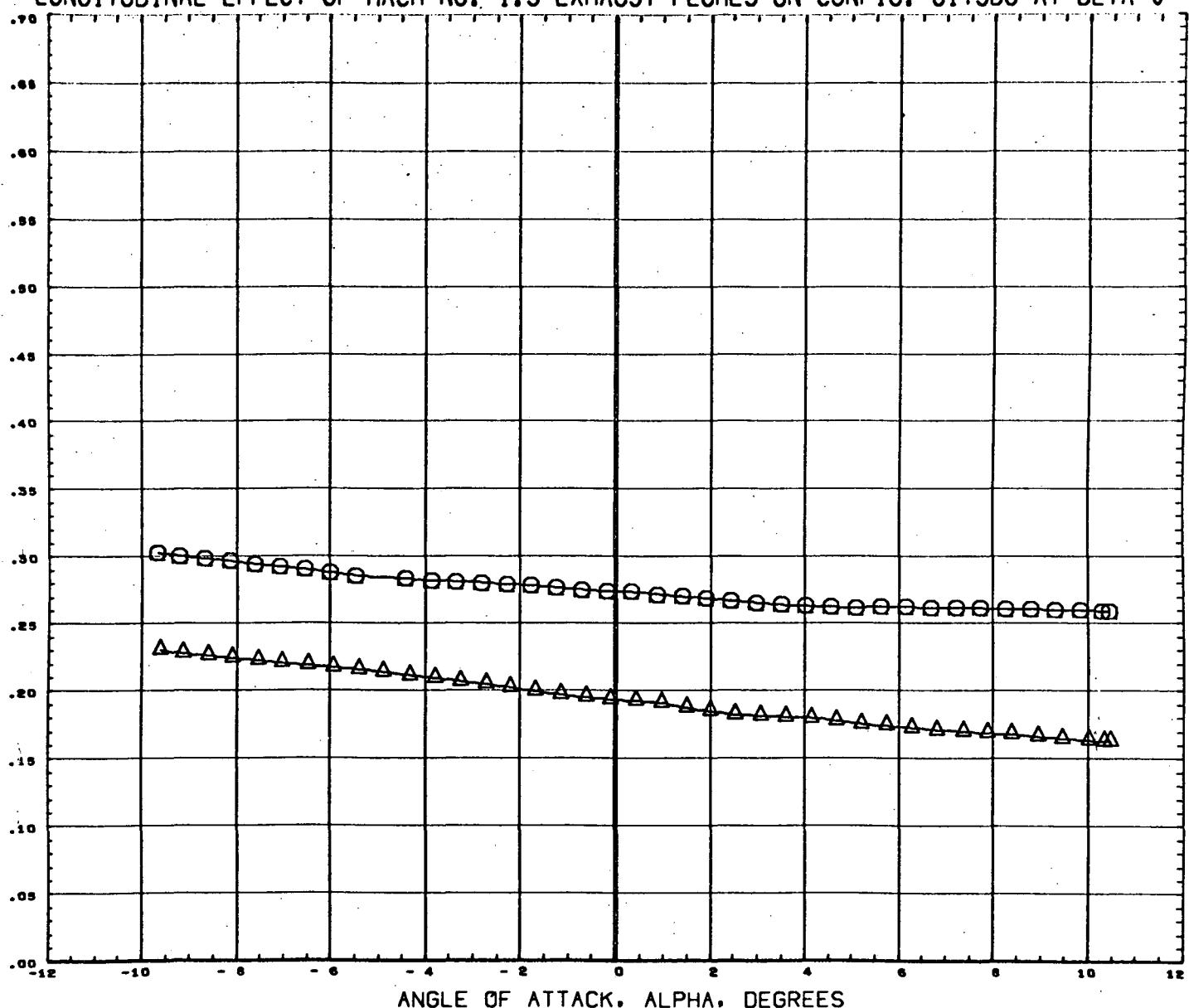
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7546)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7556)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA=0

AXIAL FORCE COEFFICIENT, CA'



DATA SET SYMBOL CONFIGURATION DESCRIPTION

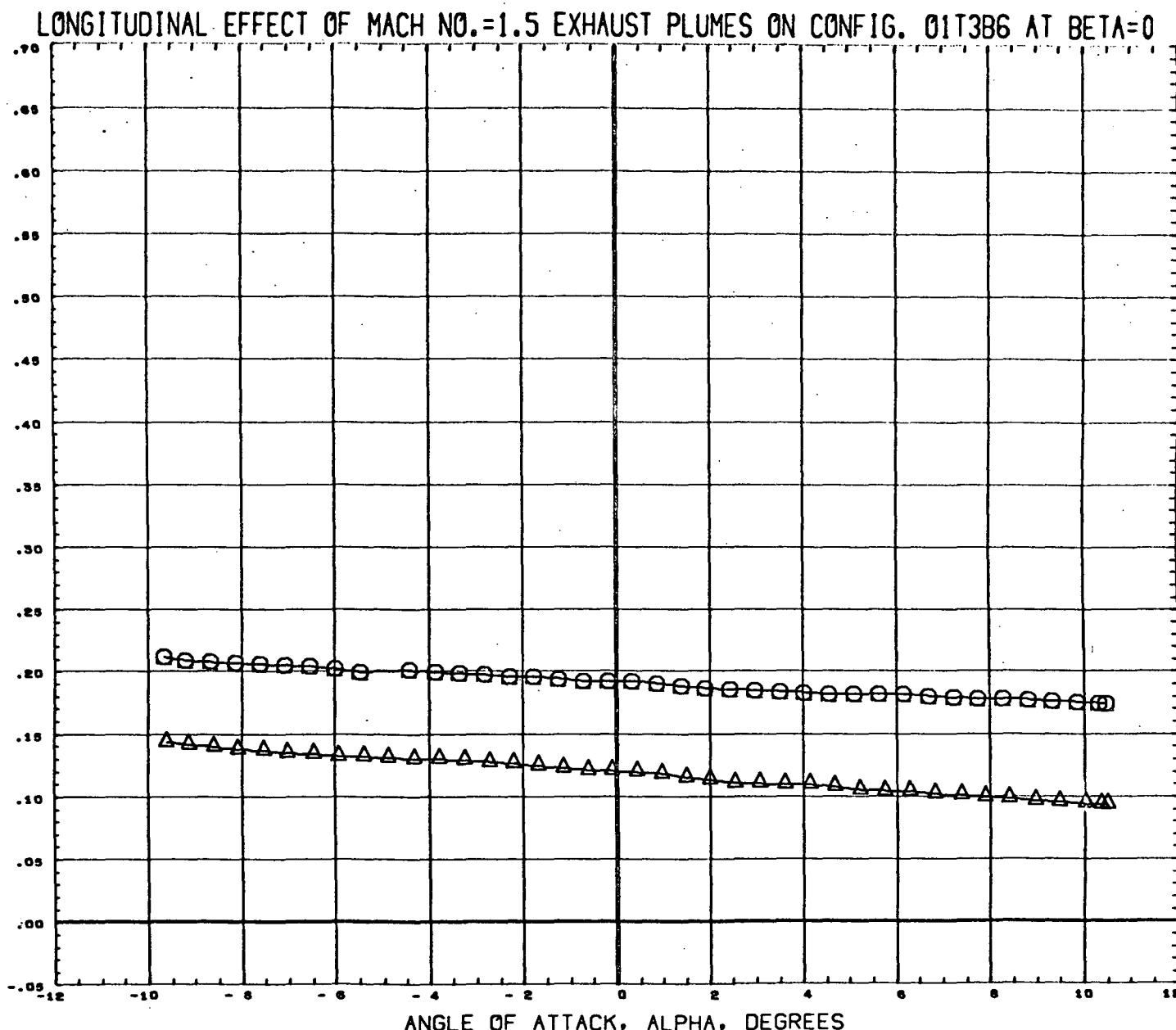
(CD7548) MDAC S-222 COMPOSITE(T-CG) 01T3B6
 (CD7556) MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 682.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.51

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FOREBODY AXIAL FORCE COEFFICIENT. CAF



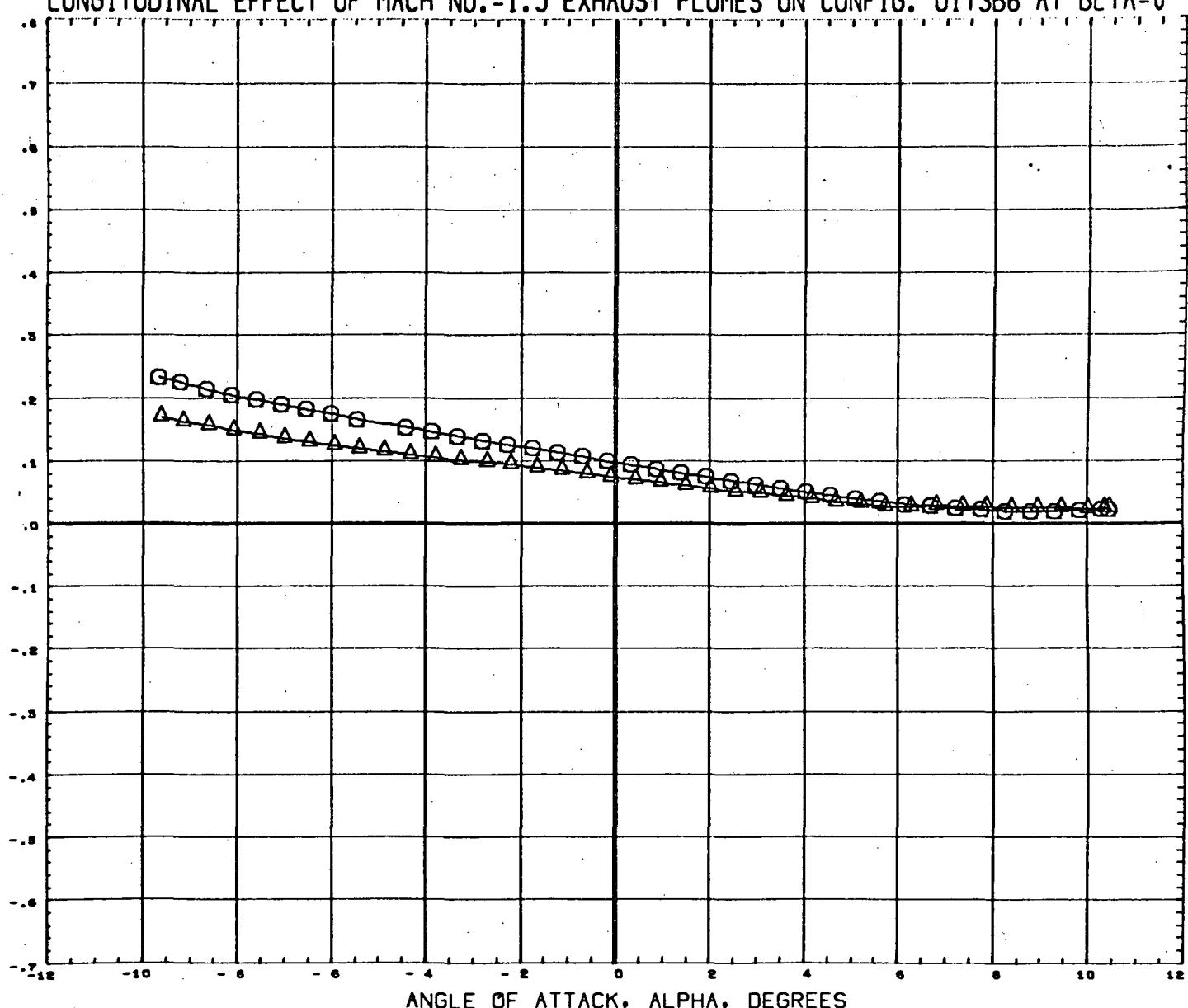
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CDT546)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CDT556)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. O1T3B6 AT BETA=0

PITCHING MOMENT COEFFICIENT, CLM



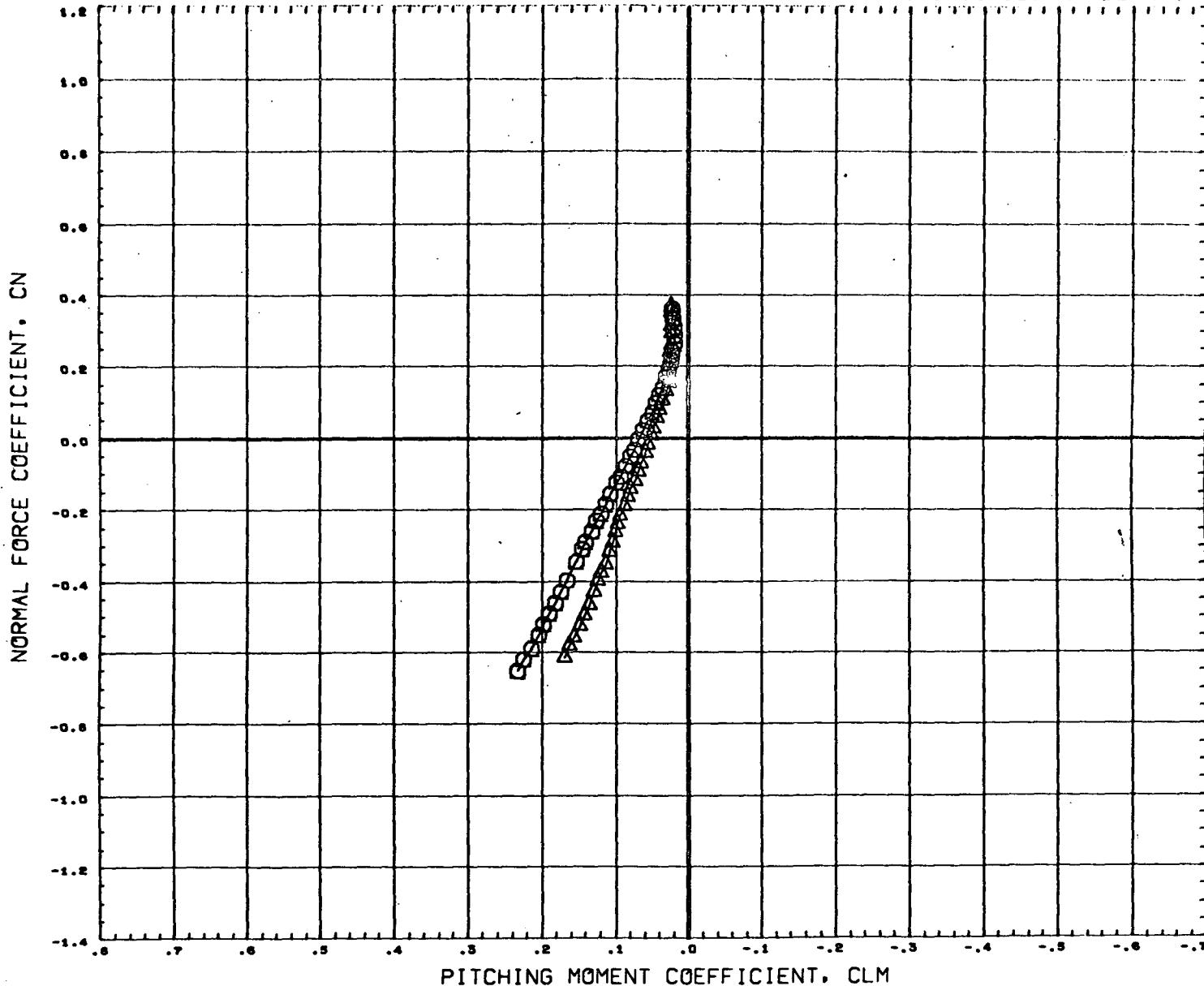
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7546)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7556)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.

BREF	682.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

MACH 1.51

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LONGITUDINAL EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. O1T3B6 AT BETA=0

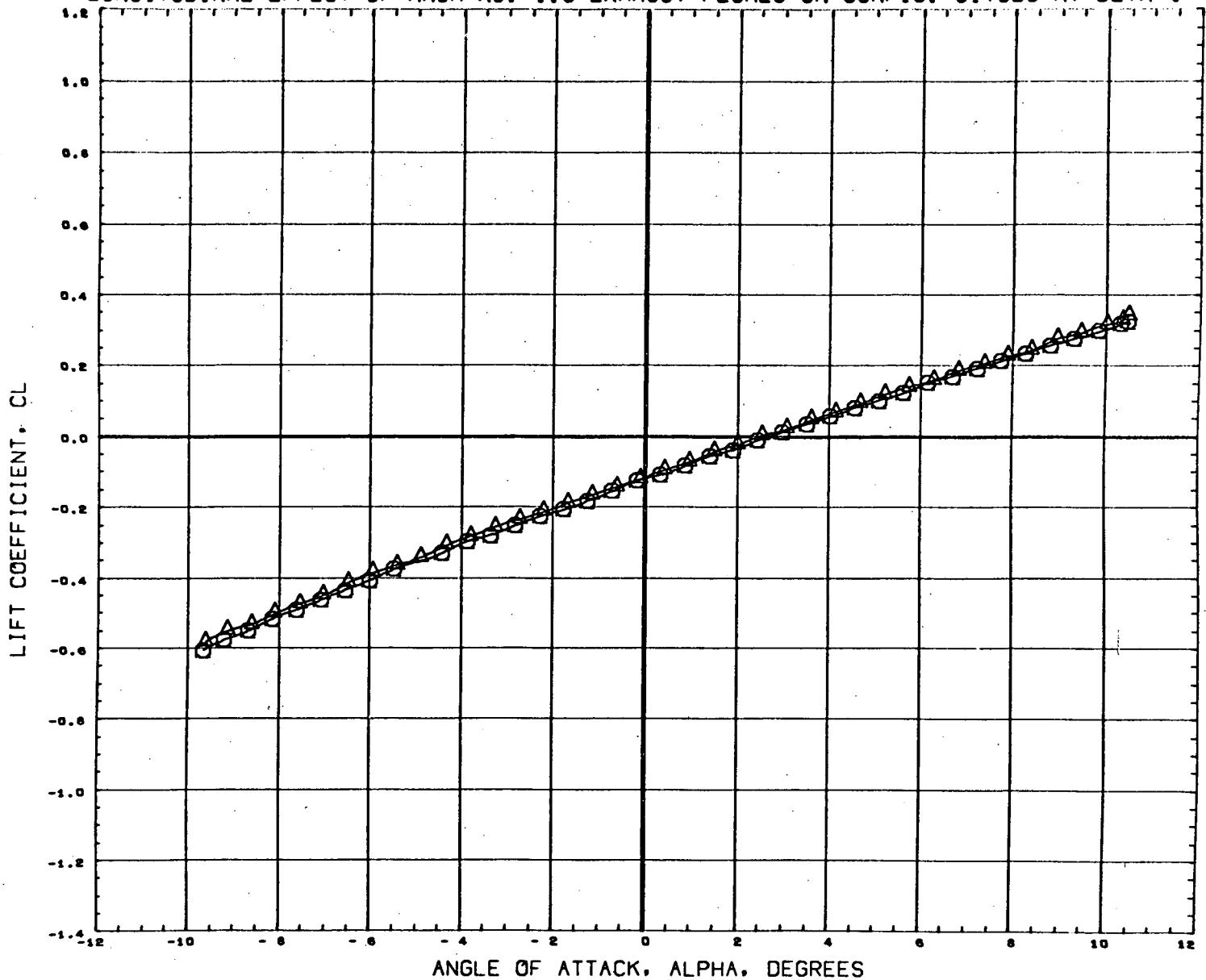


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7548)	○	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7556)	△	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. O1T3B6 AT BETA=0



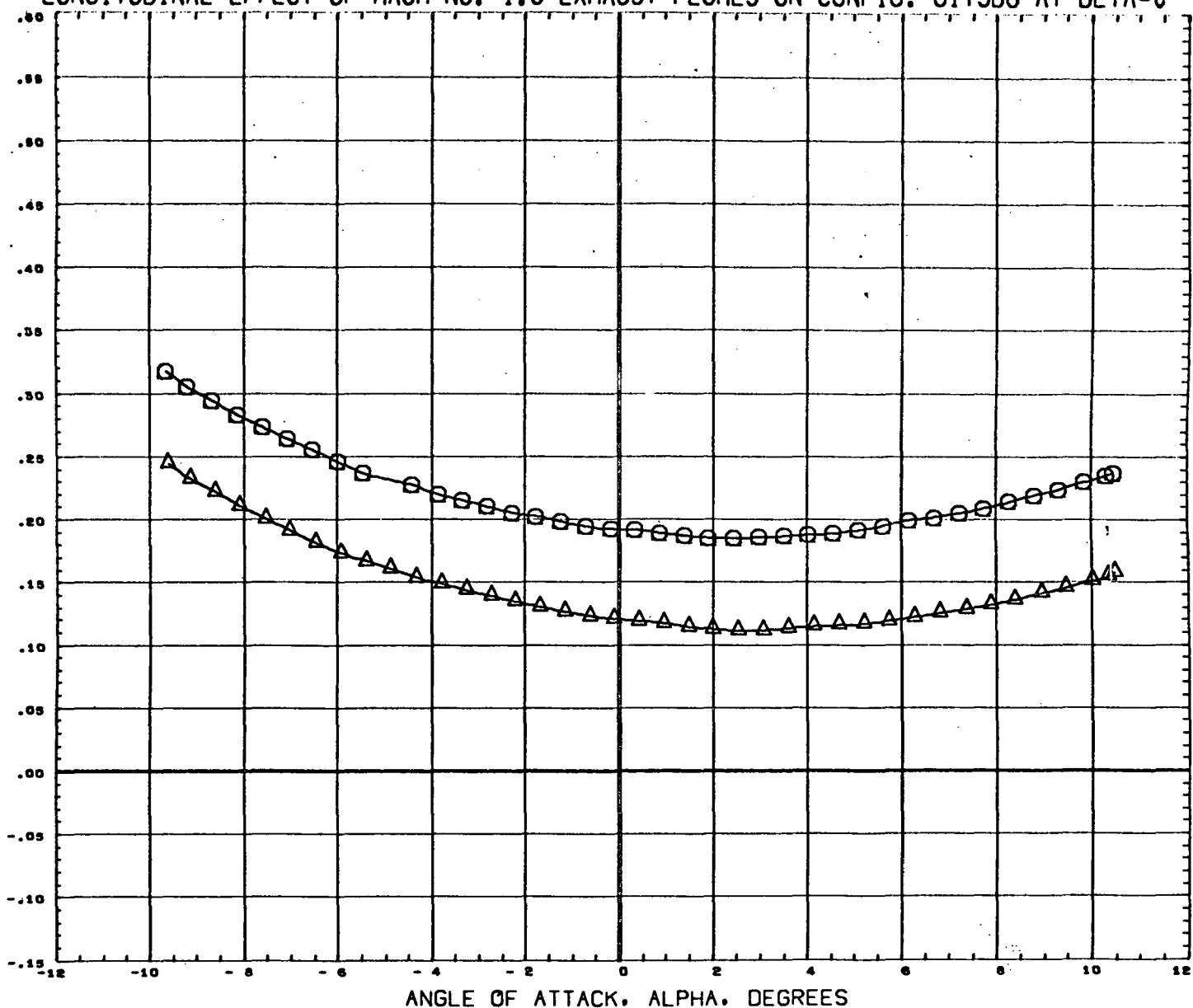
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
(CD7548)	○	MDAC S-222 COMPOSITE(T-CG) O1T3B6		0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7556)	△	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)		0.000	0.000	0.000	0.000	LREF	609.5004 IN.
								BREF	882.0004 IN.
								XMRP	557.0004 IN.
								YMRP	0.0000 IN.
								ZMRP	200.0004 IN.
								SCALE	0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. O1T3B6 AT BETA=0

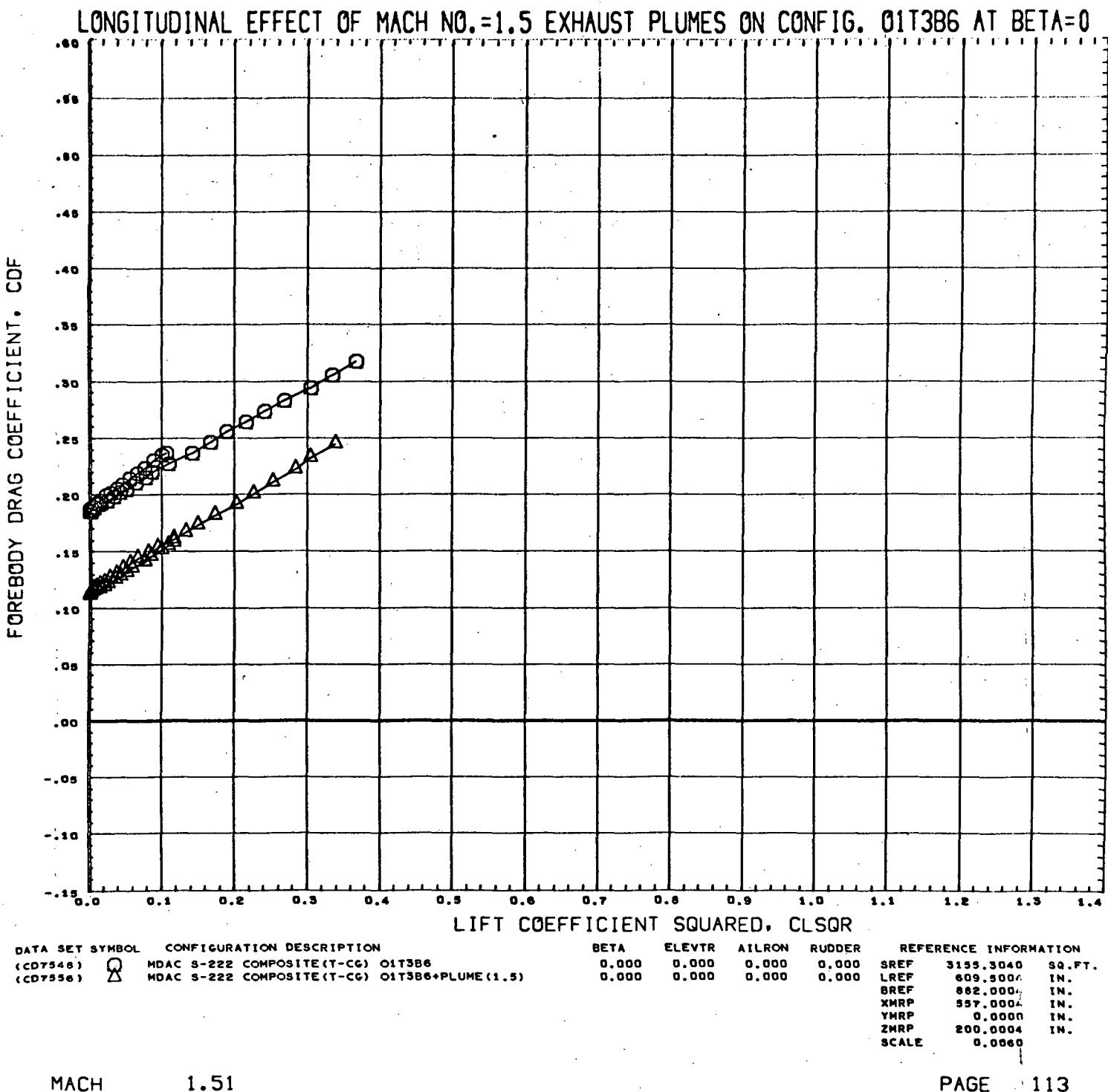
FOREBODY DRAG COEFFICIENT. COF



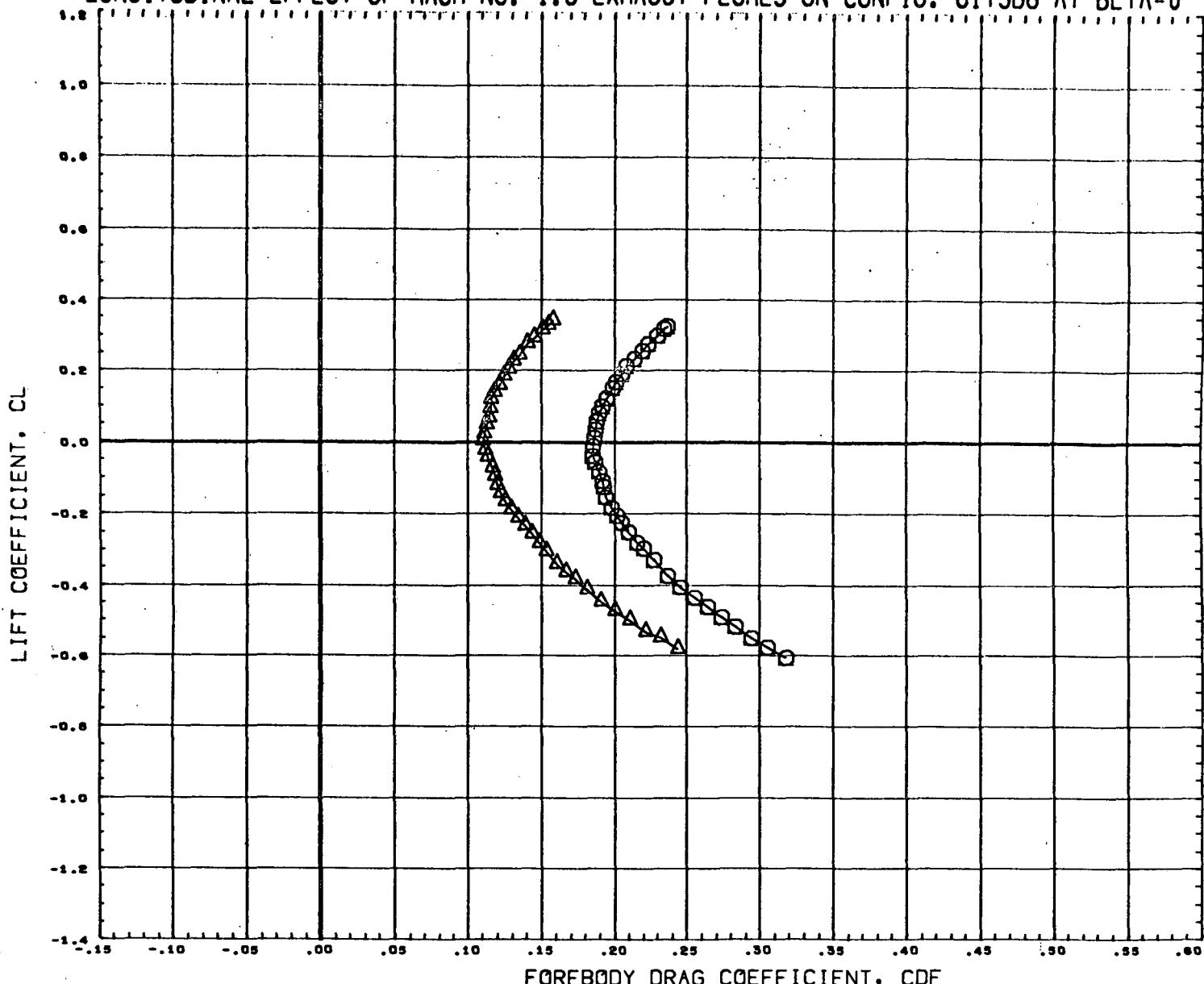
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDER	REFERENCE	INFORMATION
(CD7546)	Q	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7556)	A	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF	609.9004 IN.
							BREF	882.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 1.51

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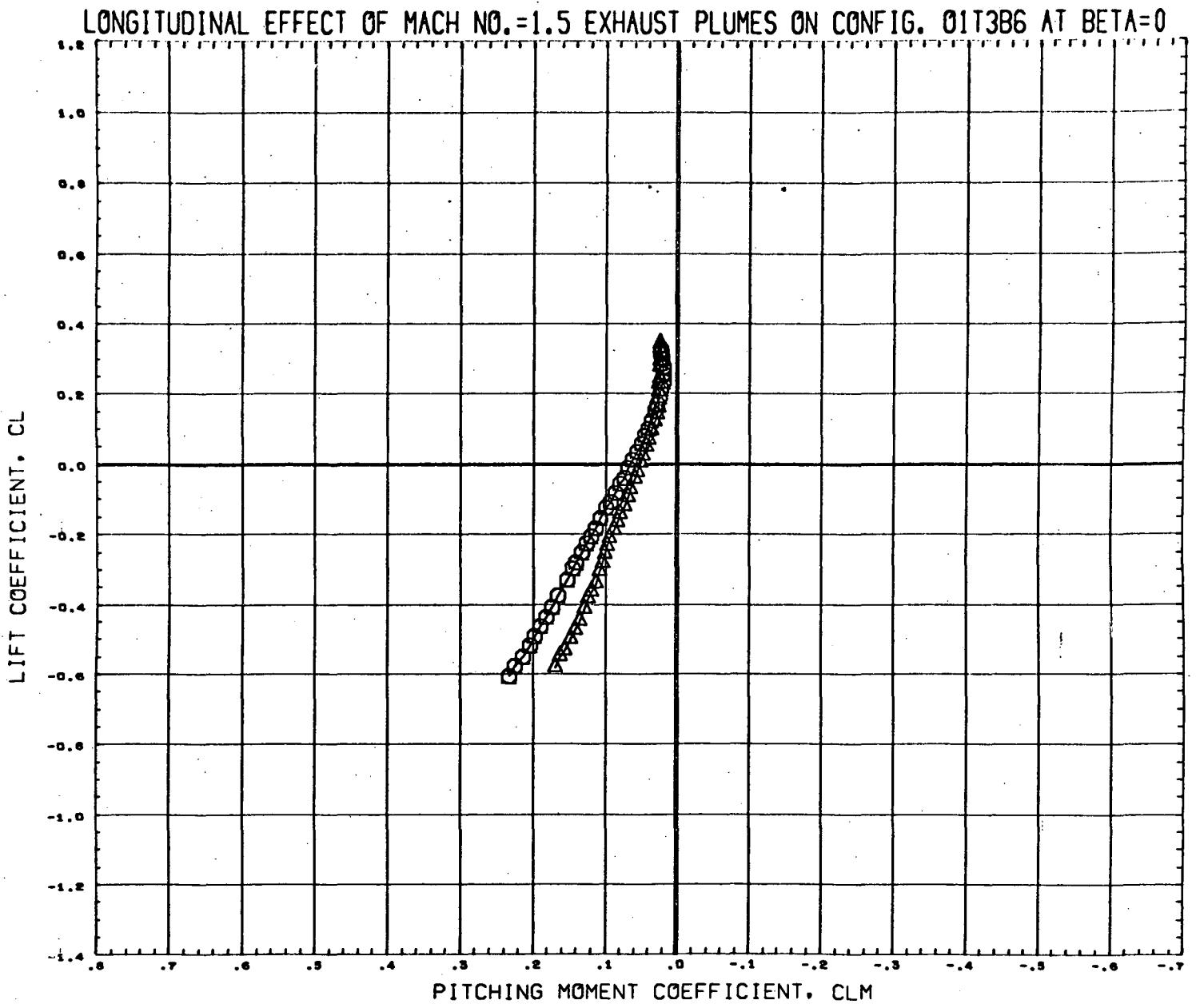
LONGITUDINAL EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA=0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7546)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3135.3040 SQ.FT. LREF 609.504 IN.
(CD7556)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH. 1.51

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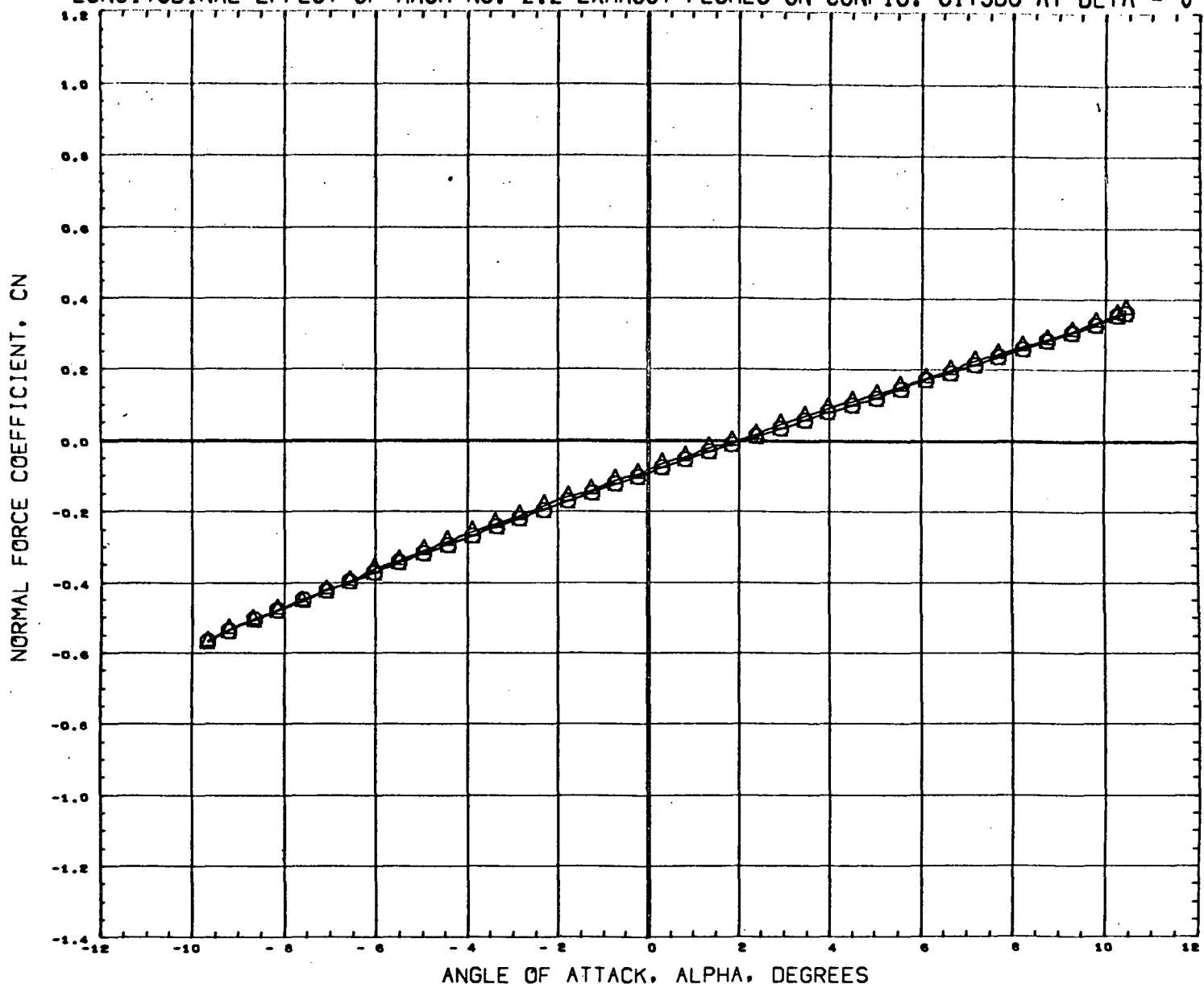


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7546)	Q	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7556)	Q	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. O1T3B6 AT BETA = 0



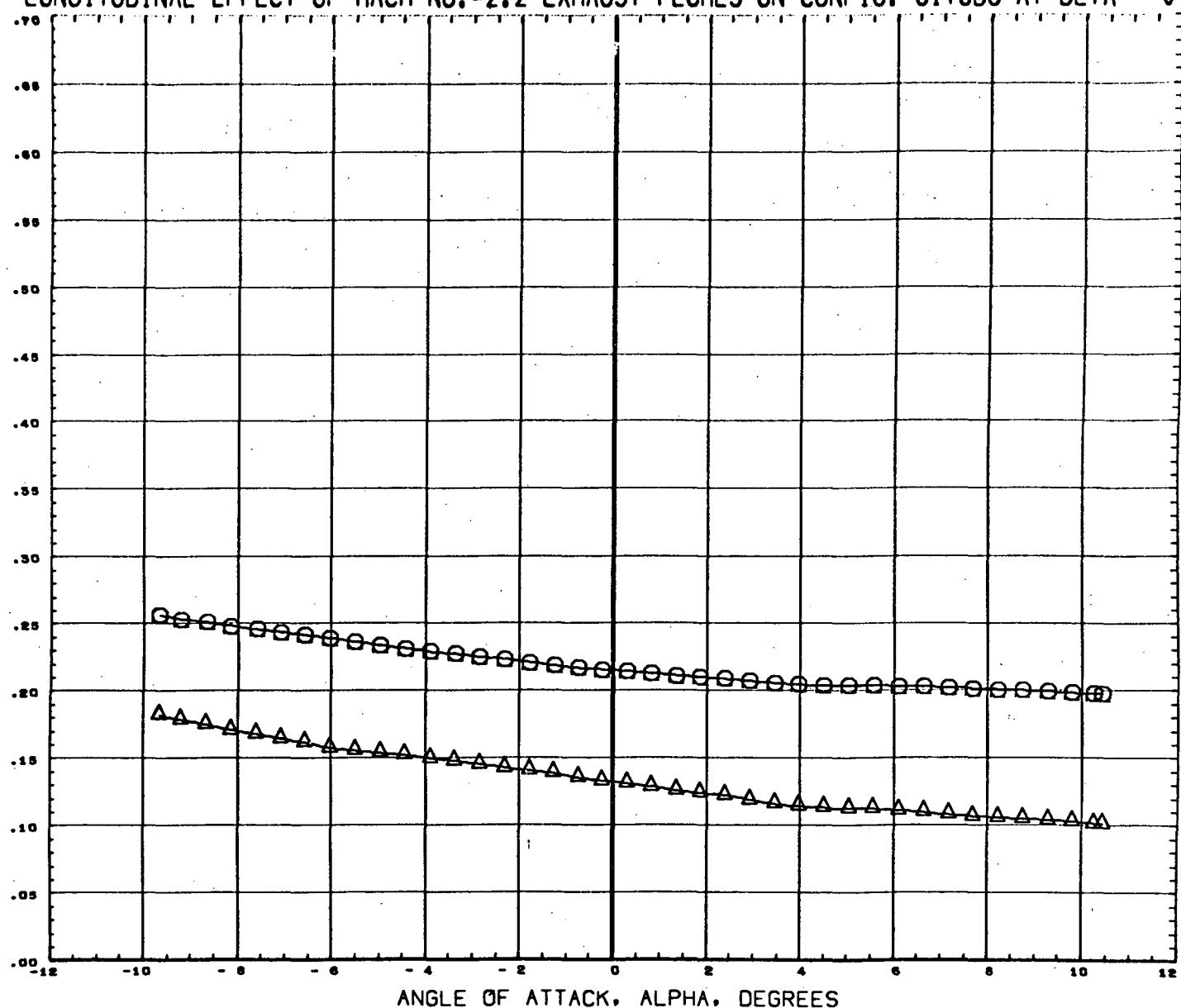
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7546)	○	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7562)	△	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA = 0

AXIAL FORCE COEFFICIENT, CA



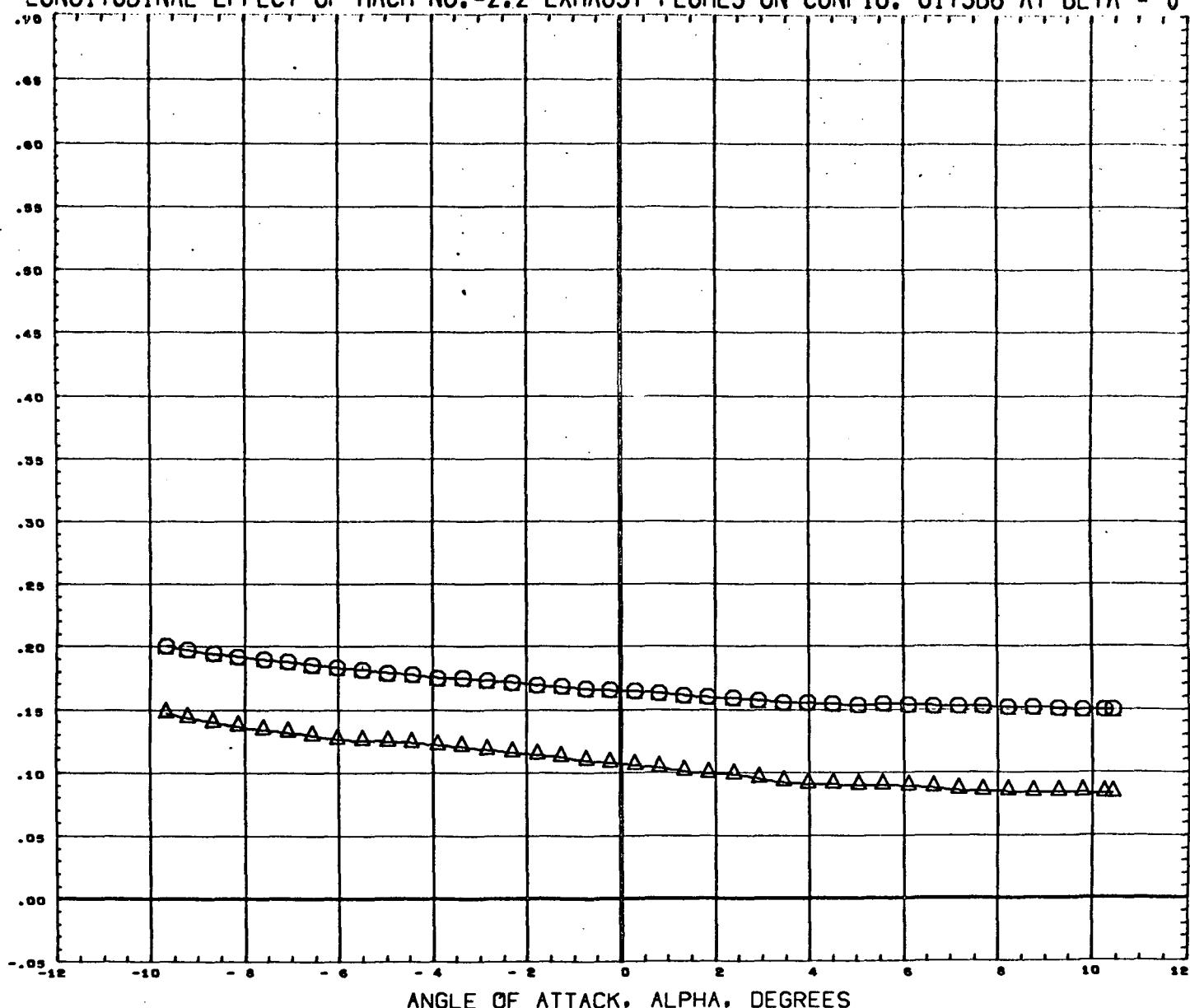
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7548)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7562)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA = 0

FOREBODY AXIAL FORCE COEFFICIENT. CAF



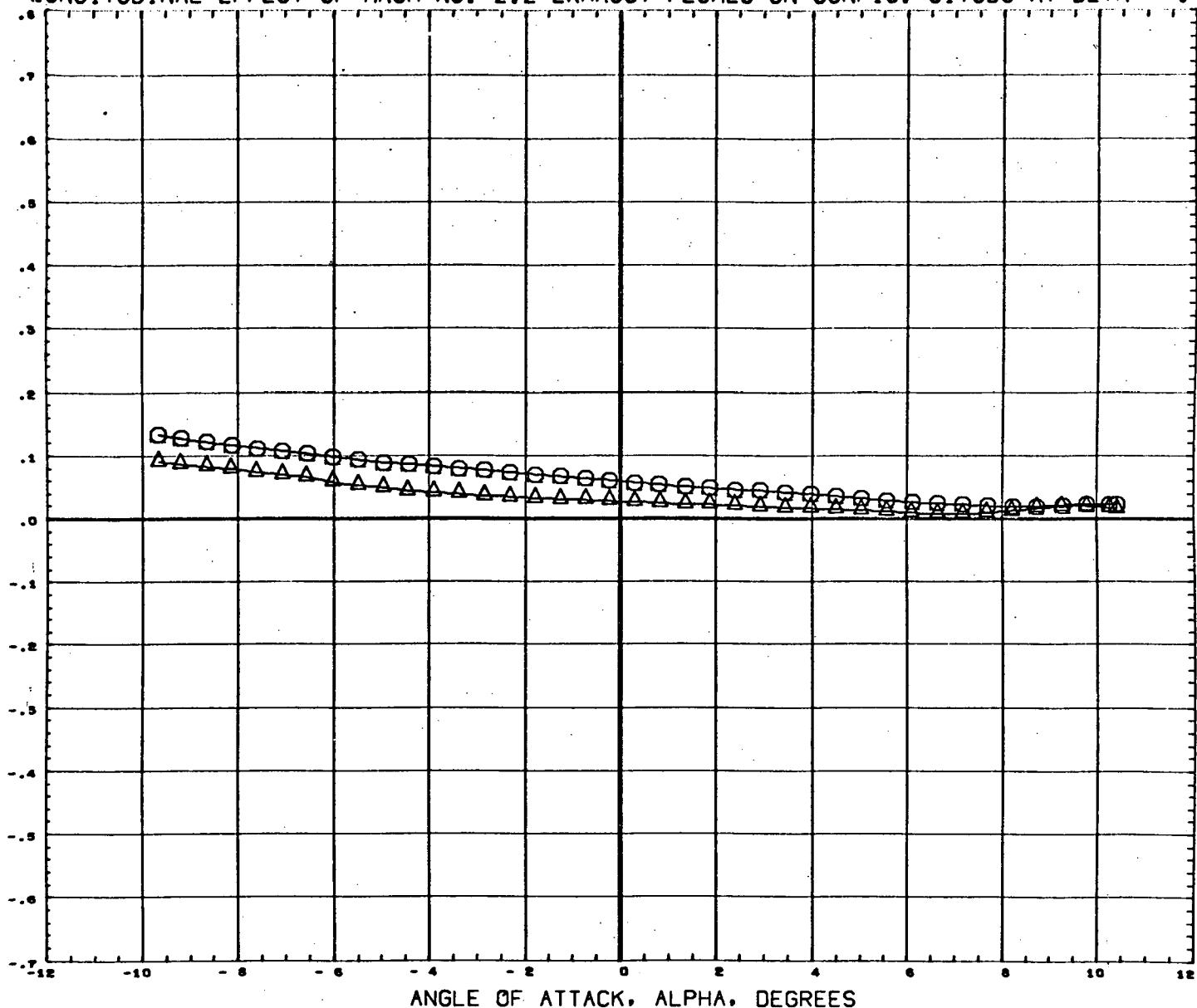
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7548)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7562)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 957.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. O1T3B6 AT BETA = 0

PITCHING MOMENT COEFFICIENT. CLM



ANGLE OF ATTACK, ALPHA, DEGREES

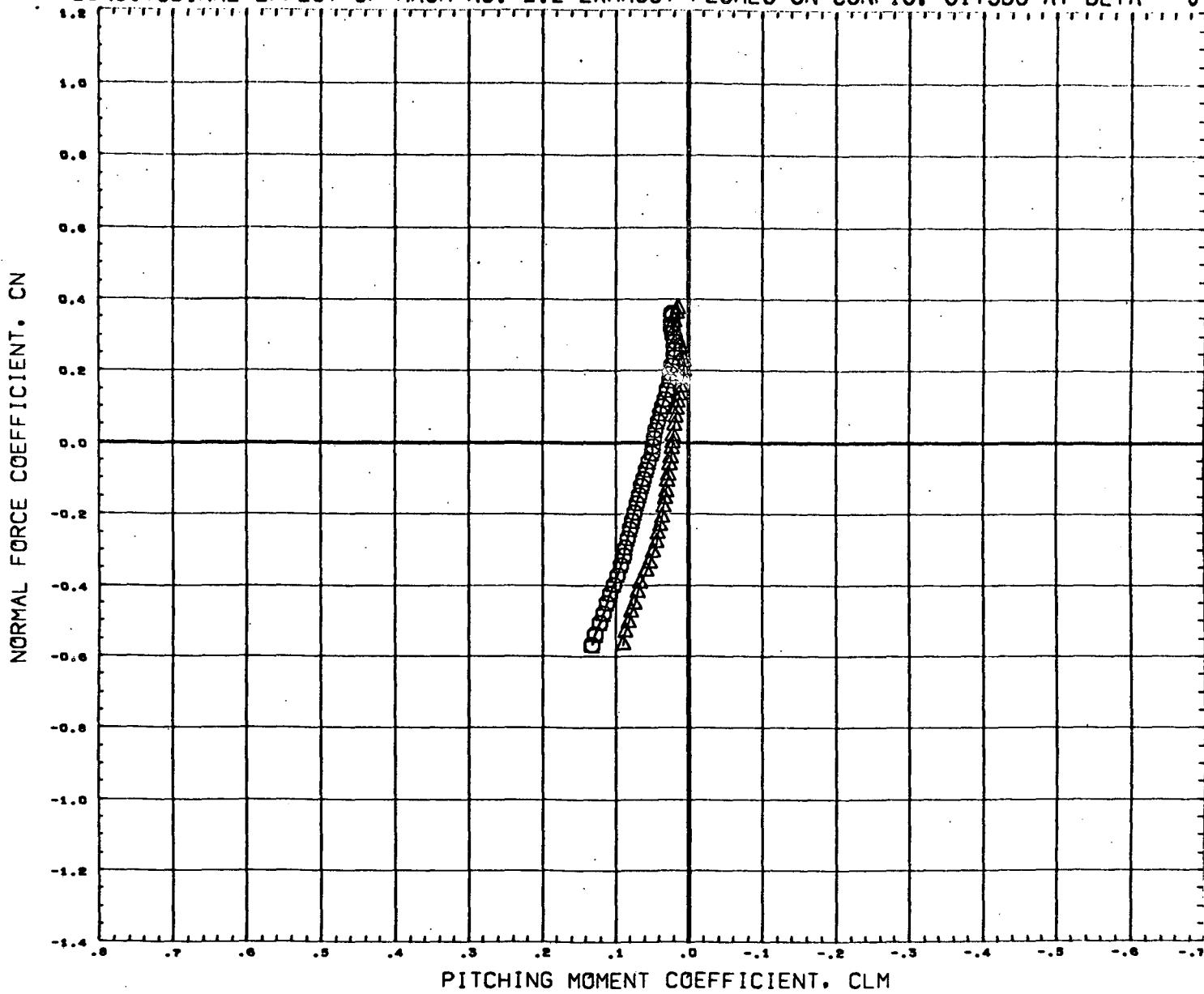
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7548) MDAC S-222 COMPOSITE(T-CG) O1T3B6
 (CD7562) MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 682.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA = 0

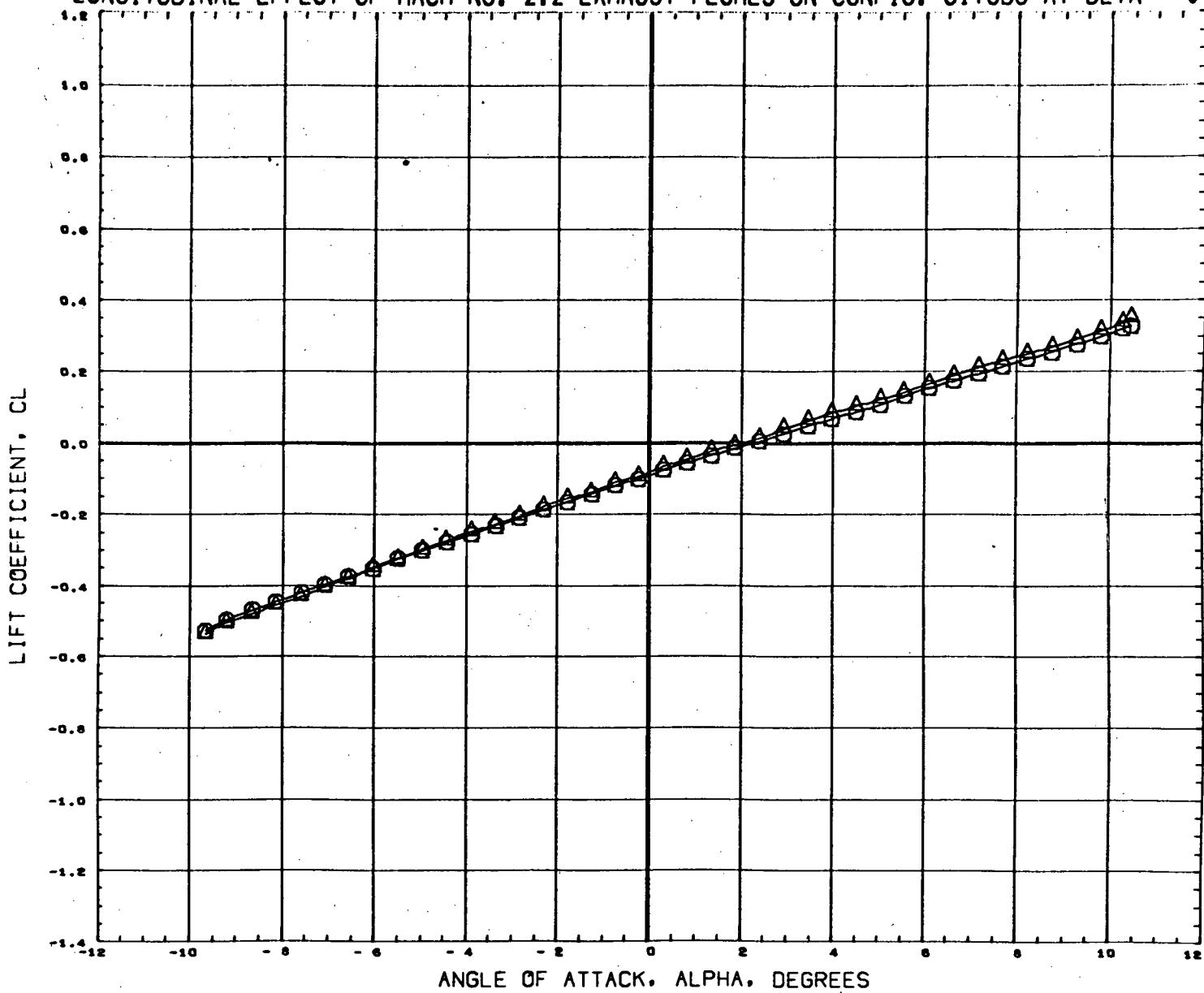


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7548)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7562)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME (2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 662.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA = 0

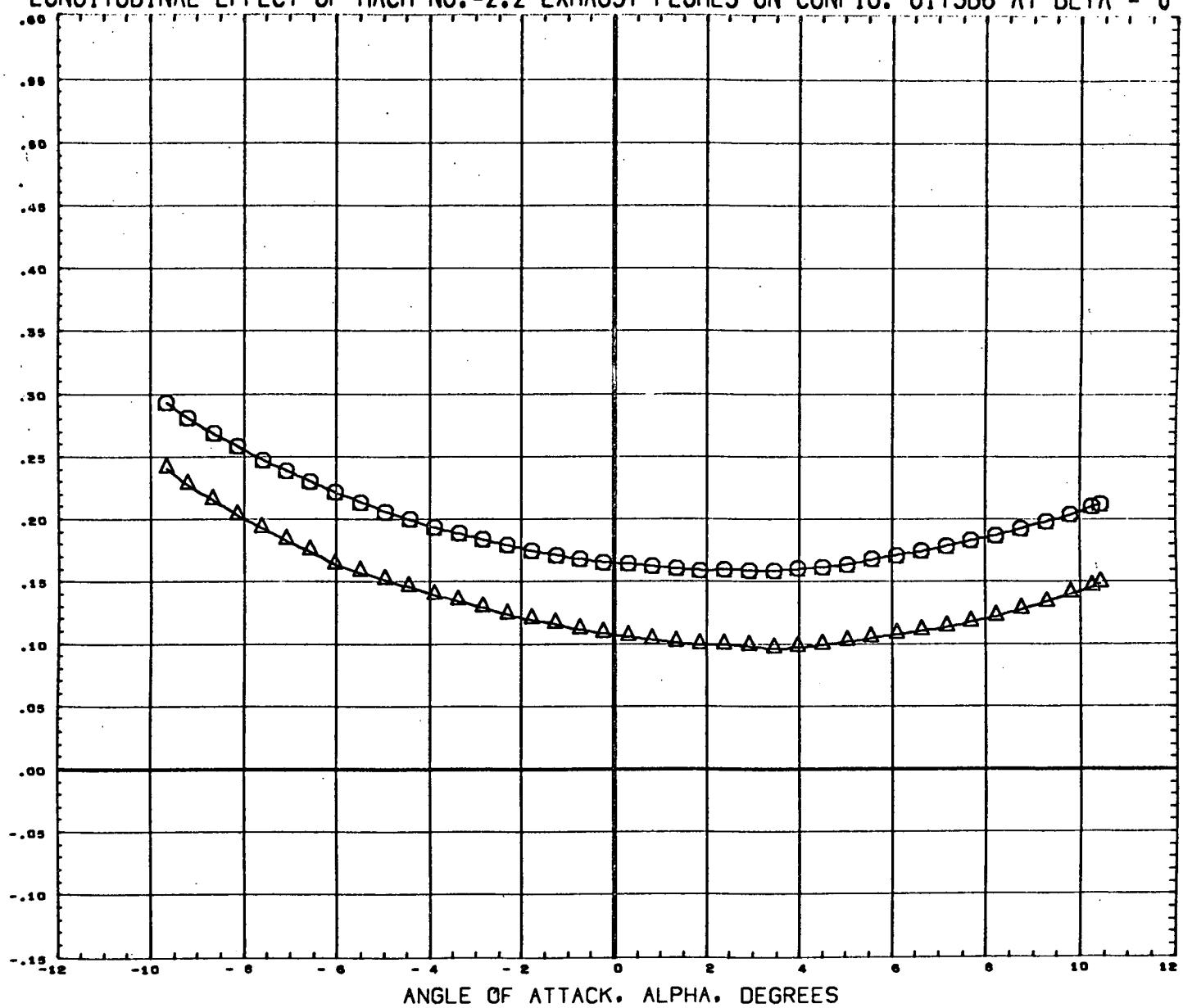


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7548) MDAC S-222 COMPOSITE(T-CG) 01T3B6
 (CD7562) MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)

BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA = 0

FOREBODY DRAG COEFFICIENT. CDF



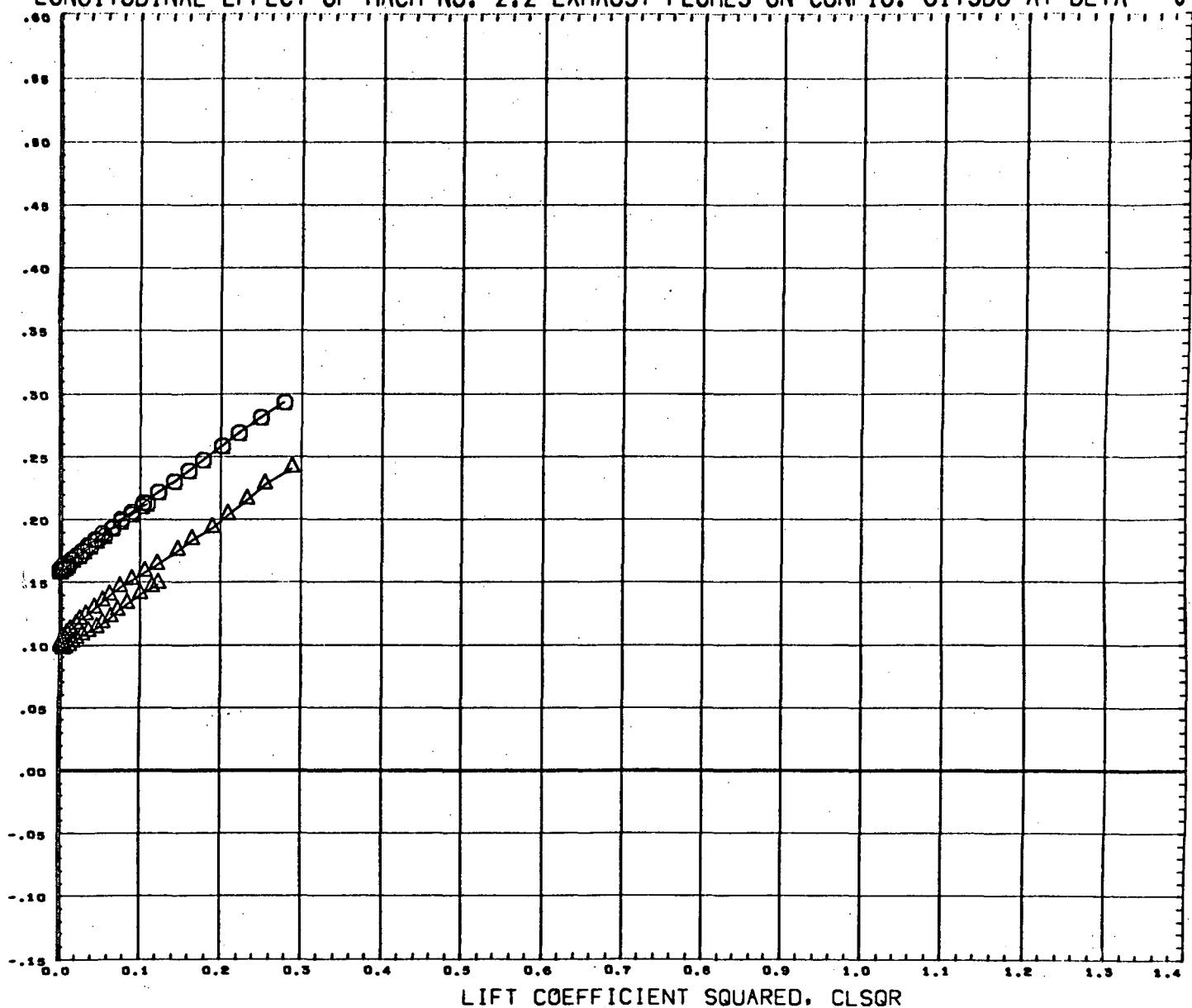
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7548)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7562)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. O1T3B6 AT BETA = 0

FOREBODY DRAG COEFFICIENT. CDF

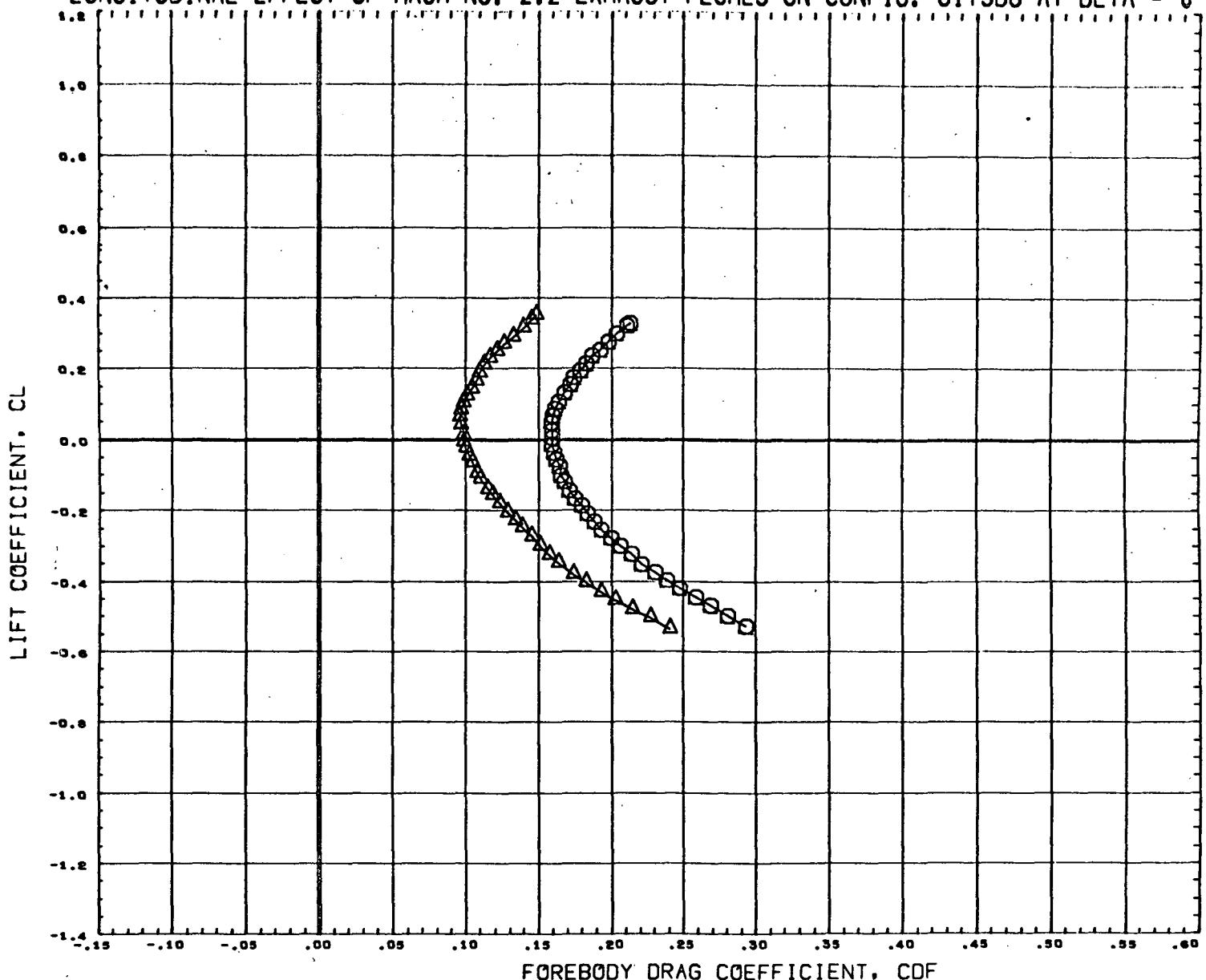


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7548)	○	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7562)	△	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. O1T3B6 AT BETA = 0

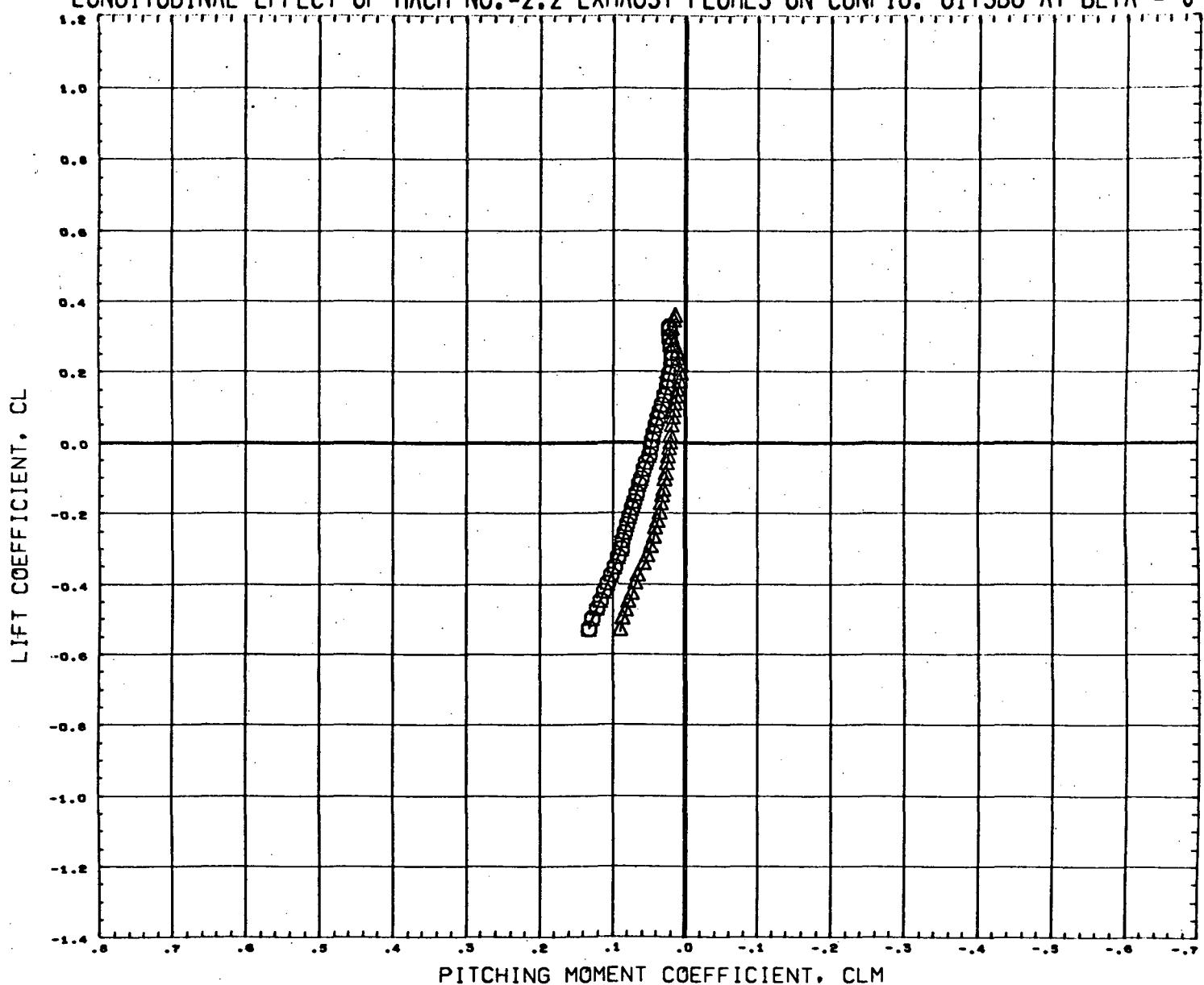


DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CD7548) MDAC S-222 COMPOSITE(T-CG) O1T3B6
 (CD7562) MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.9004 IN.
				BREF 882.0004 IN.
				XMRP 937.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LONGITUDINAL EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. 01T3B6 AT BETA = 0



PITCHING MOMENT COEFFICIENT, CLM

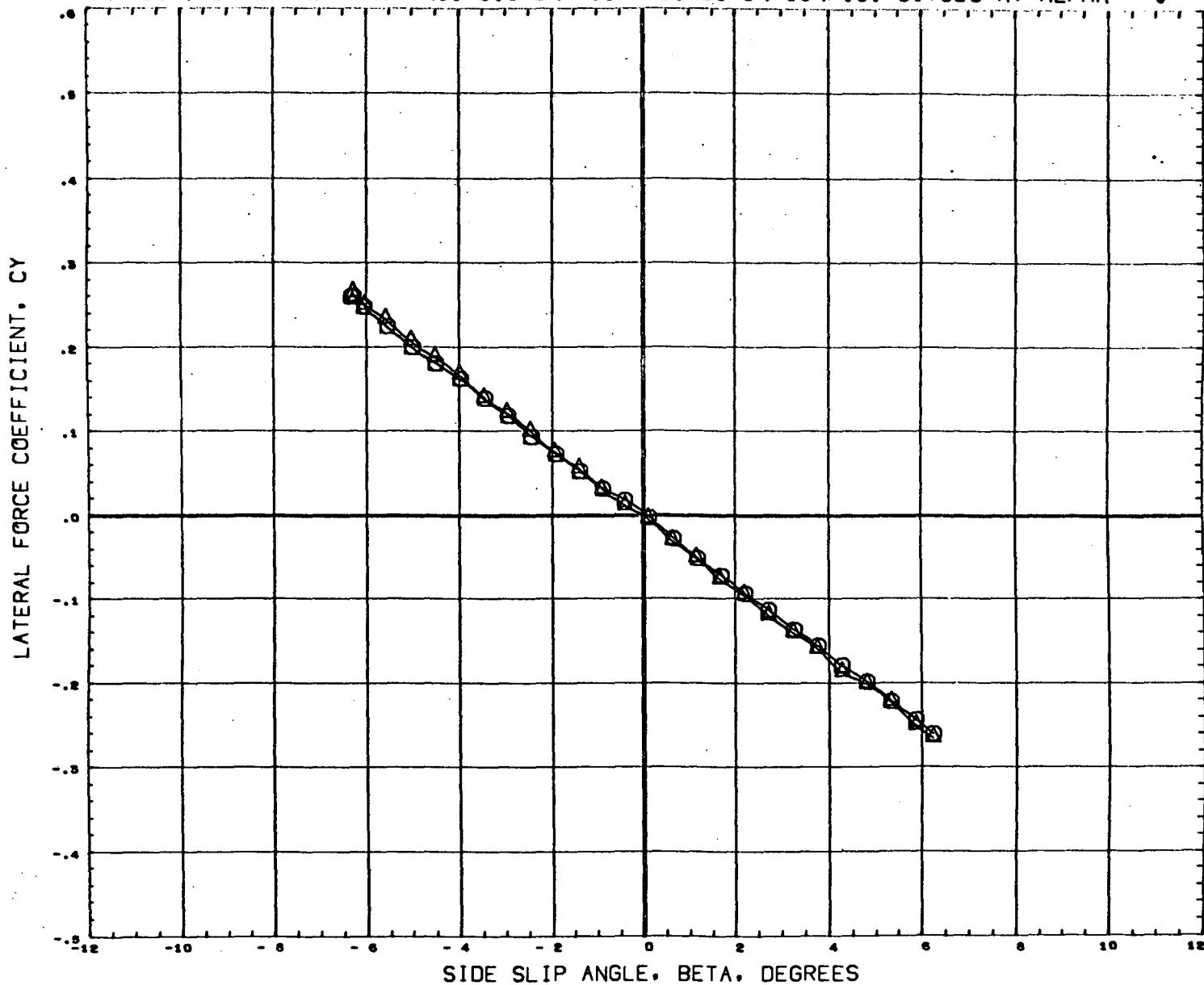
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(CD7548)	Q	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7562)	Q	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2,2)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

BREF 682.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

MACH 2.20

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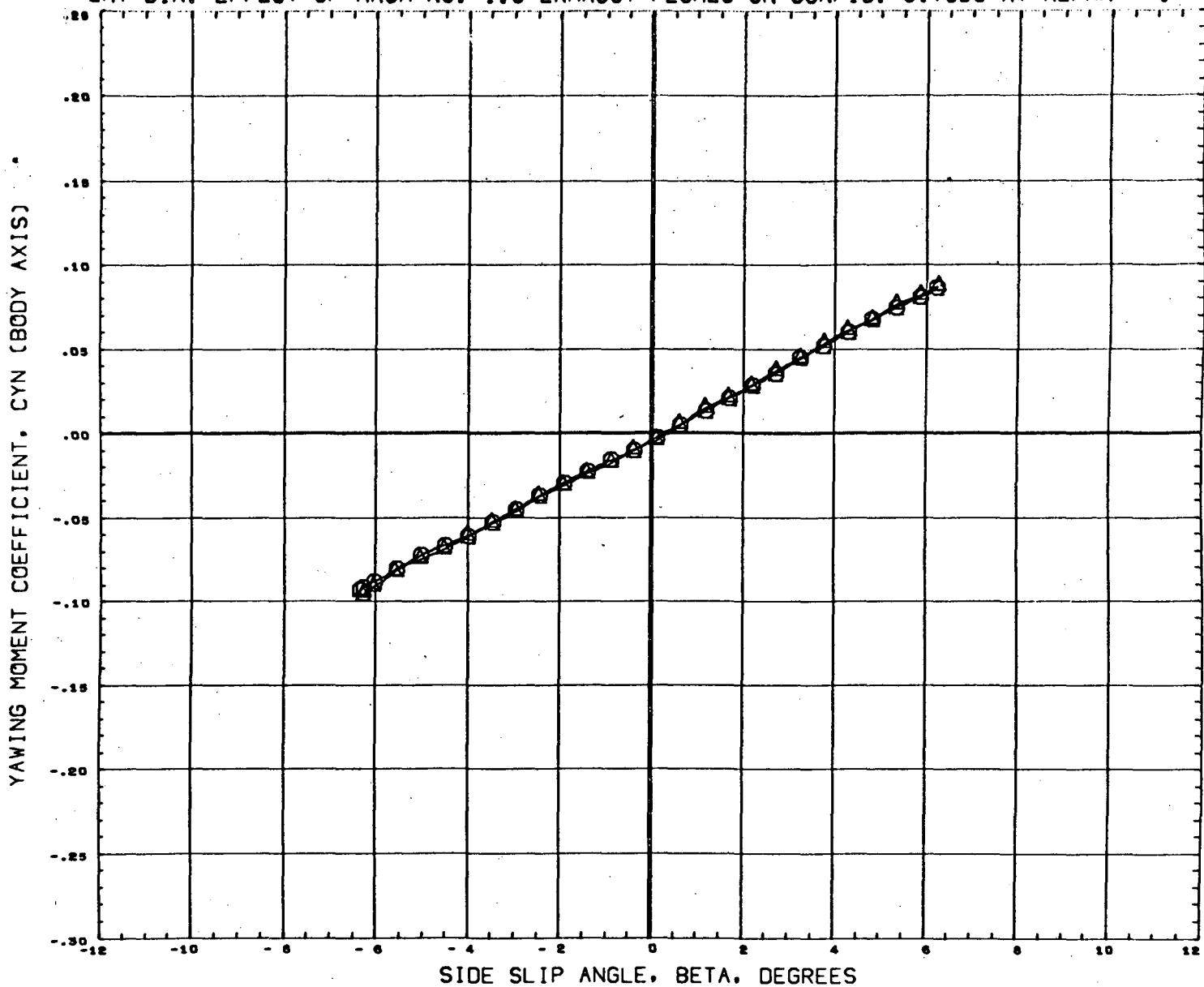
LAT-DIR. EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. 01T3B6 AT ALPHA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7549) MDAC S-222 COMPOSITE(T-CG) 01T3B6
 (RD7557) MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)

ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LAT-DIR. EFFECT OF MACH NO.=1.5 EXHAUST PLUMES ON CONFIG. 01T3B6 AT ALPHA = 0

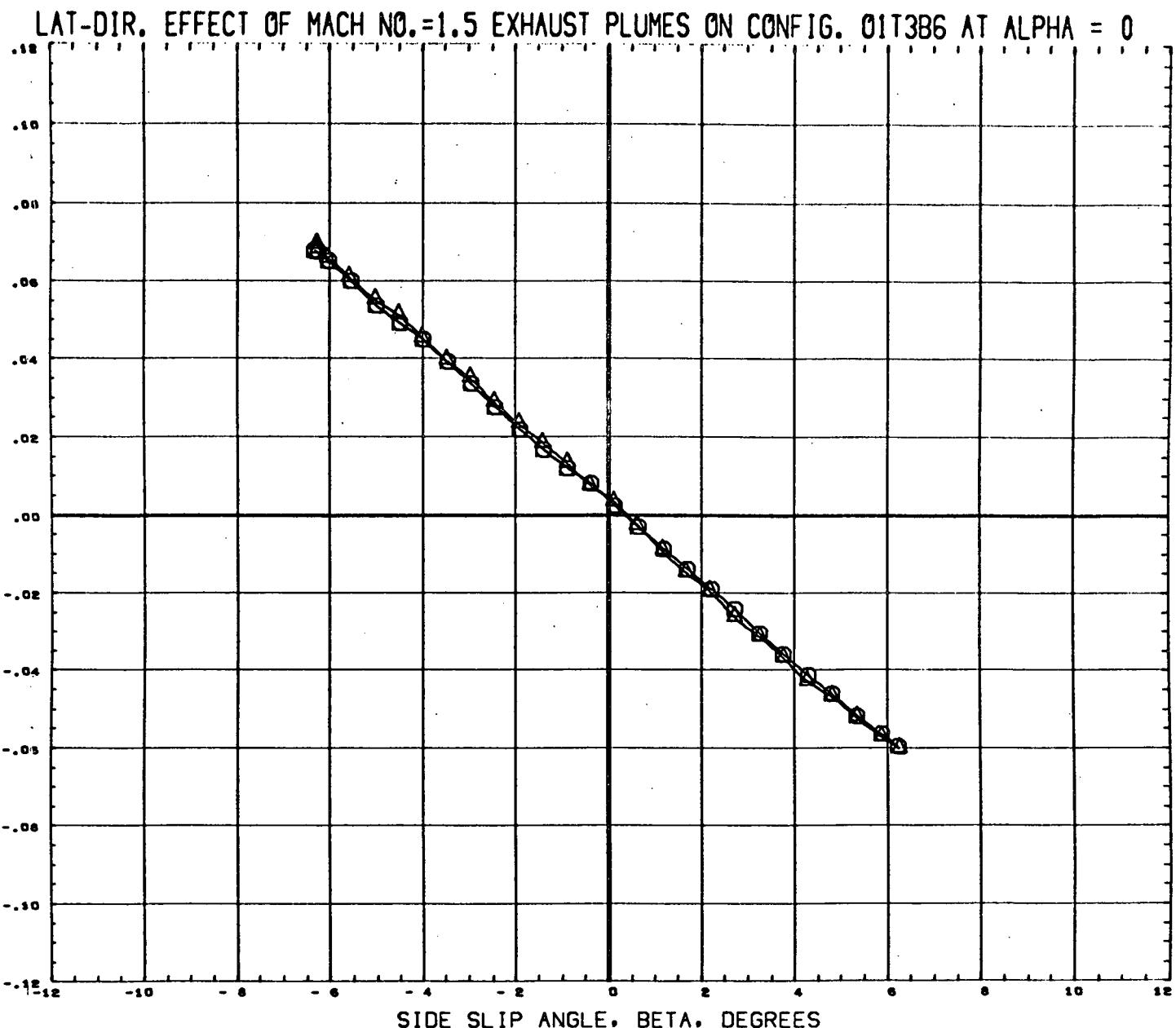


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7549)	○	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7557)	△	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



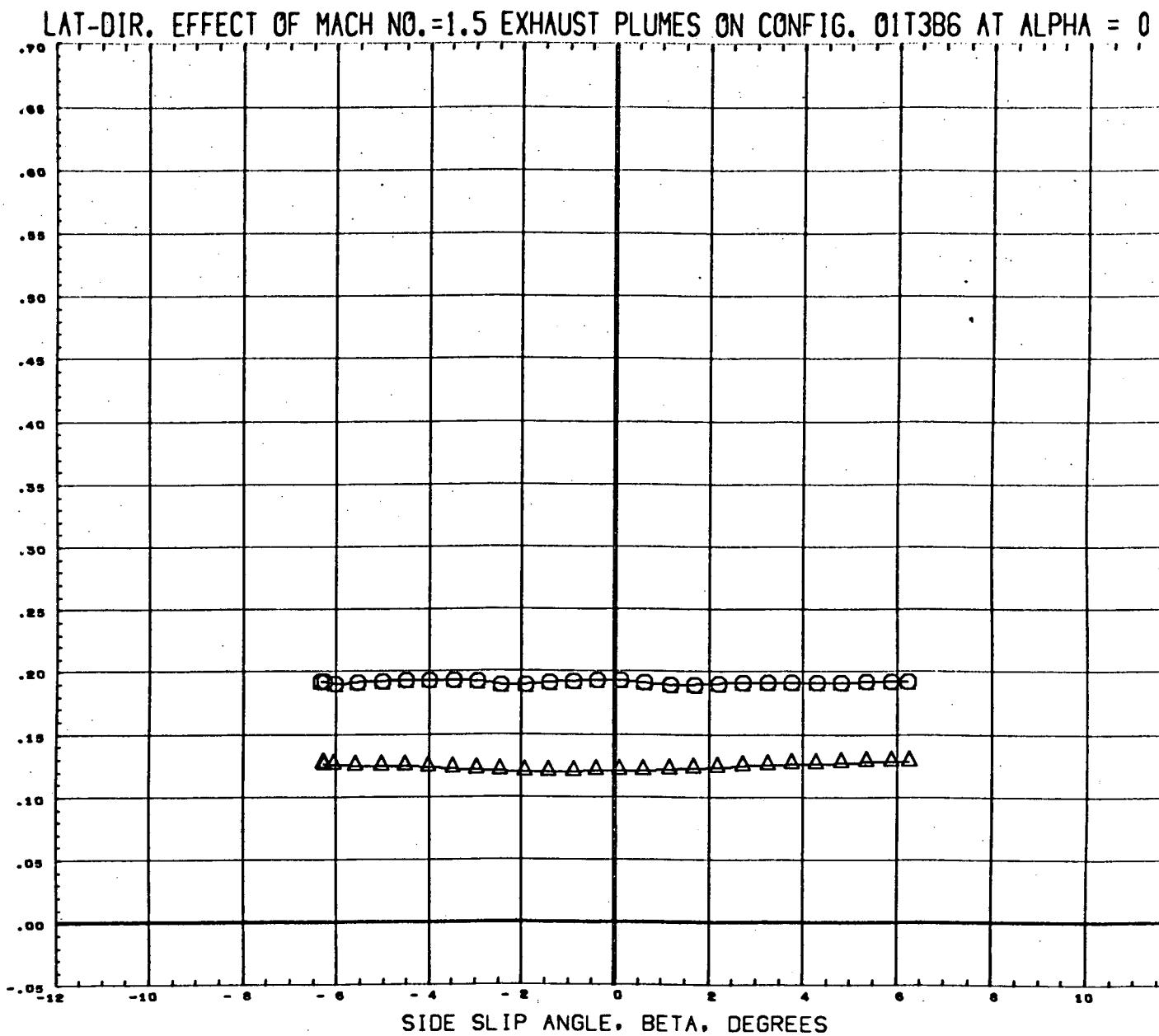
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
						SREF	LREF	BREF
(RD7549)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	3155.3040	609.5004	862.0004
(RD7557)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	0.0000	0.0000	0.0000

MACH 1.51

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FOREBODY AXIAL FORCE COEFFICIENT, CAF



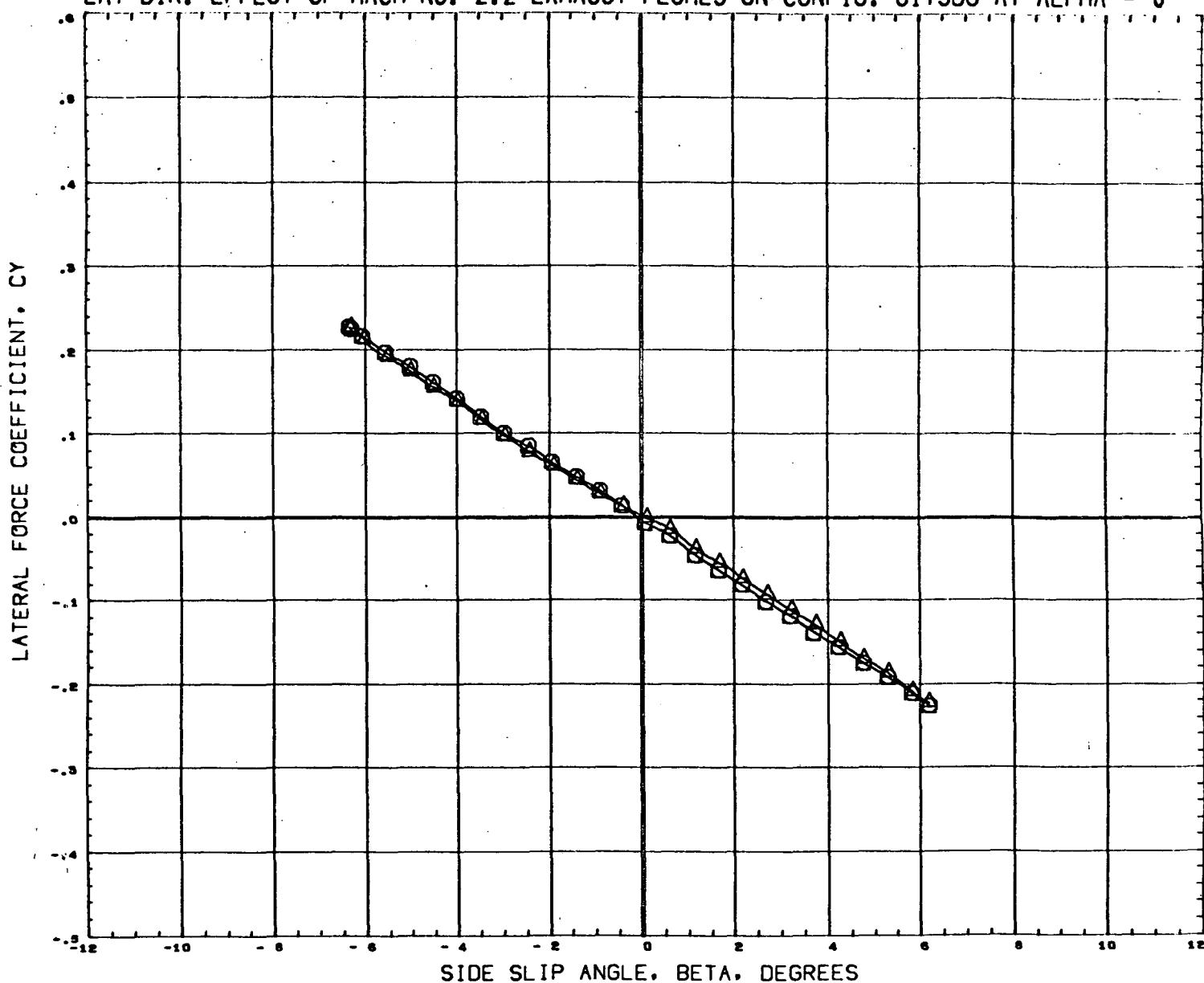
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7549) MDAC S-222 COMPOSITE(T-CG) O1T3B6
 (RD7557) MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)

ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 682.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.51

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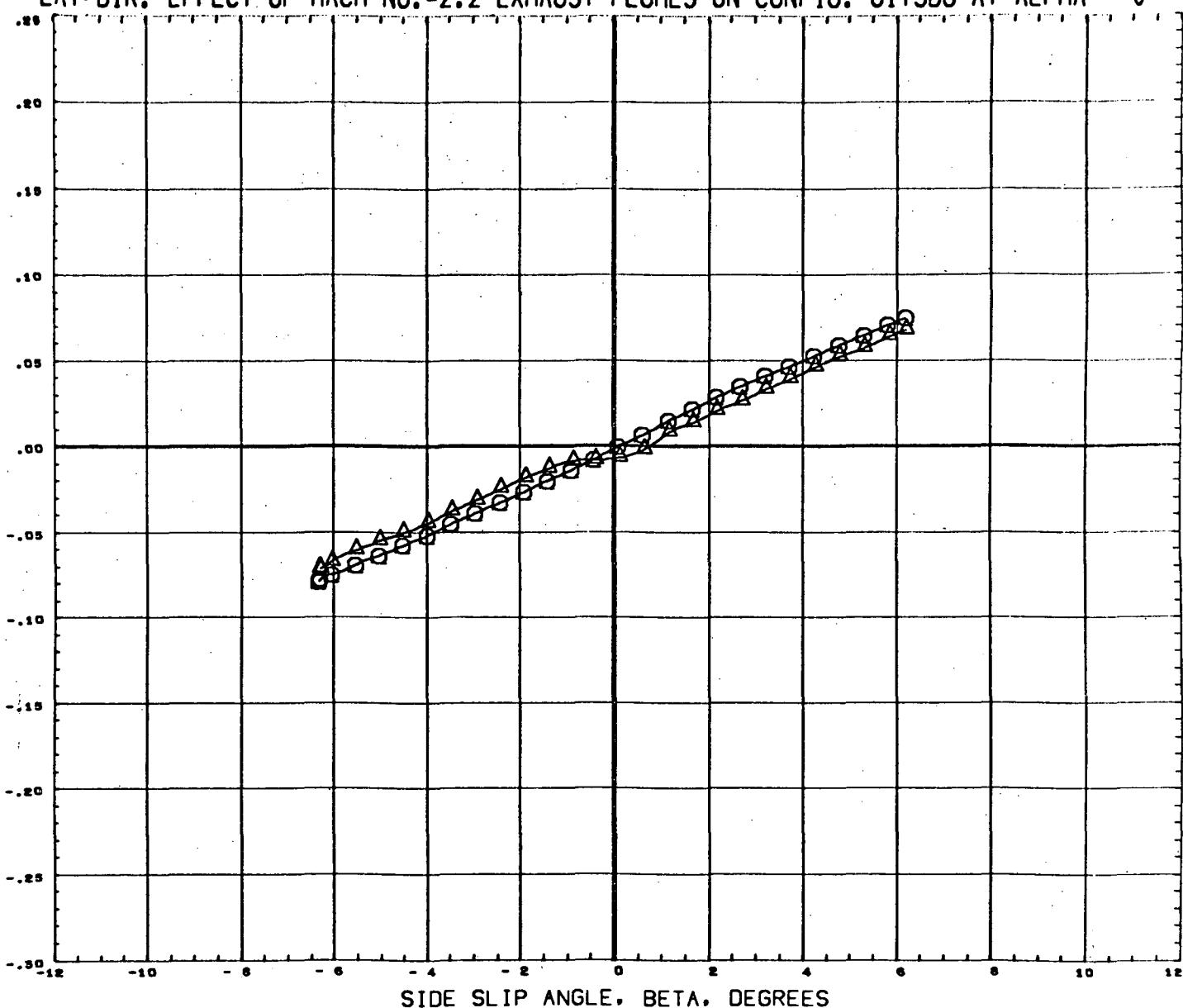
LAT-DIR. EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. 01T3B6 AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD9549)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD9563)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

LAT-DIR. EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. 01T3B6 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



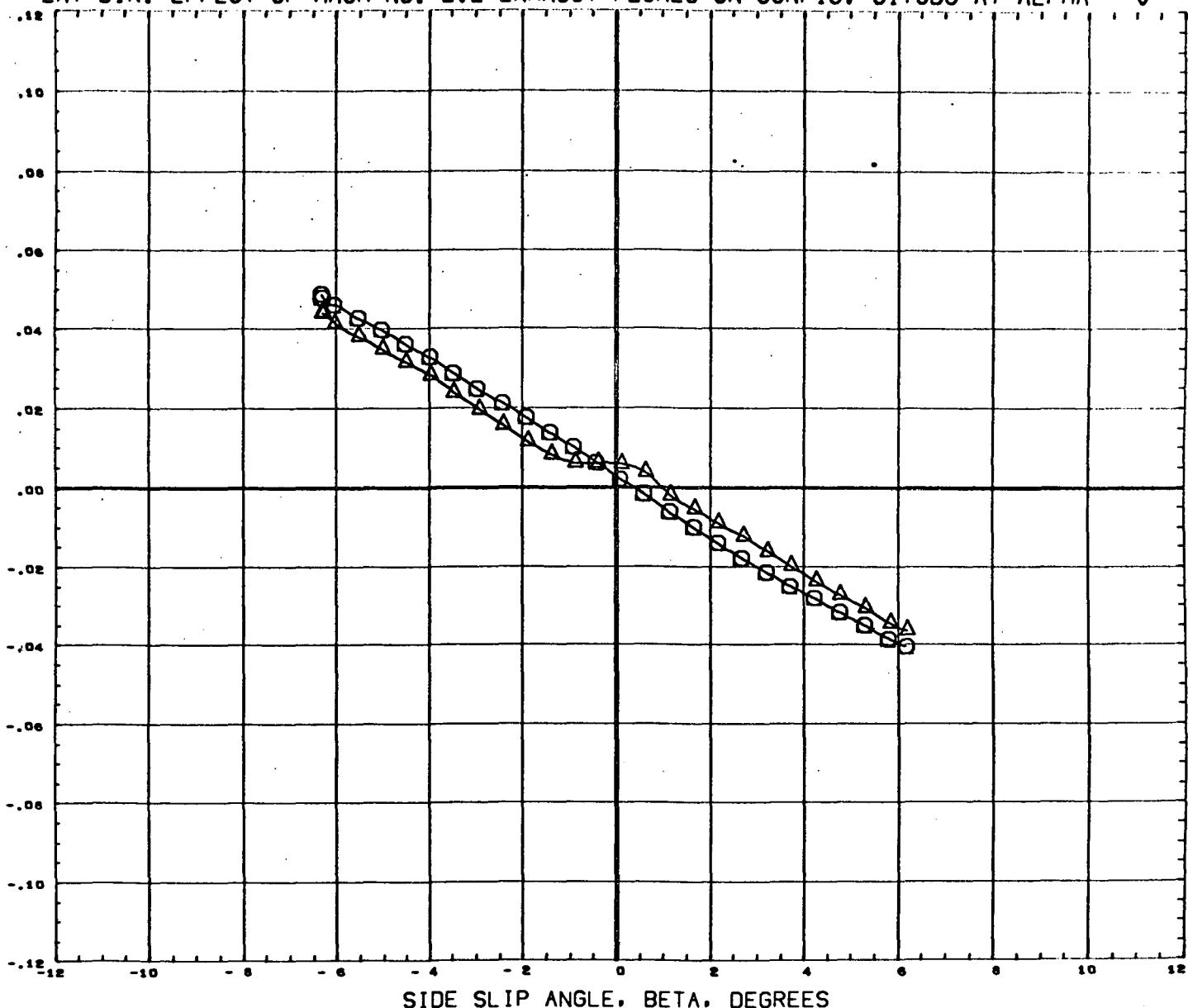
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7349)	Q	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7563)	A	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LAT-DIR. EFFECT OF MACH NO.=2.2 EXHAUST PLUMES ON CONFIG. O1T3B6 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)

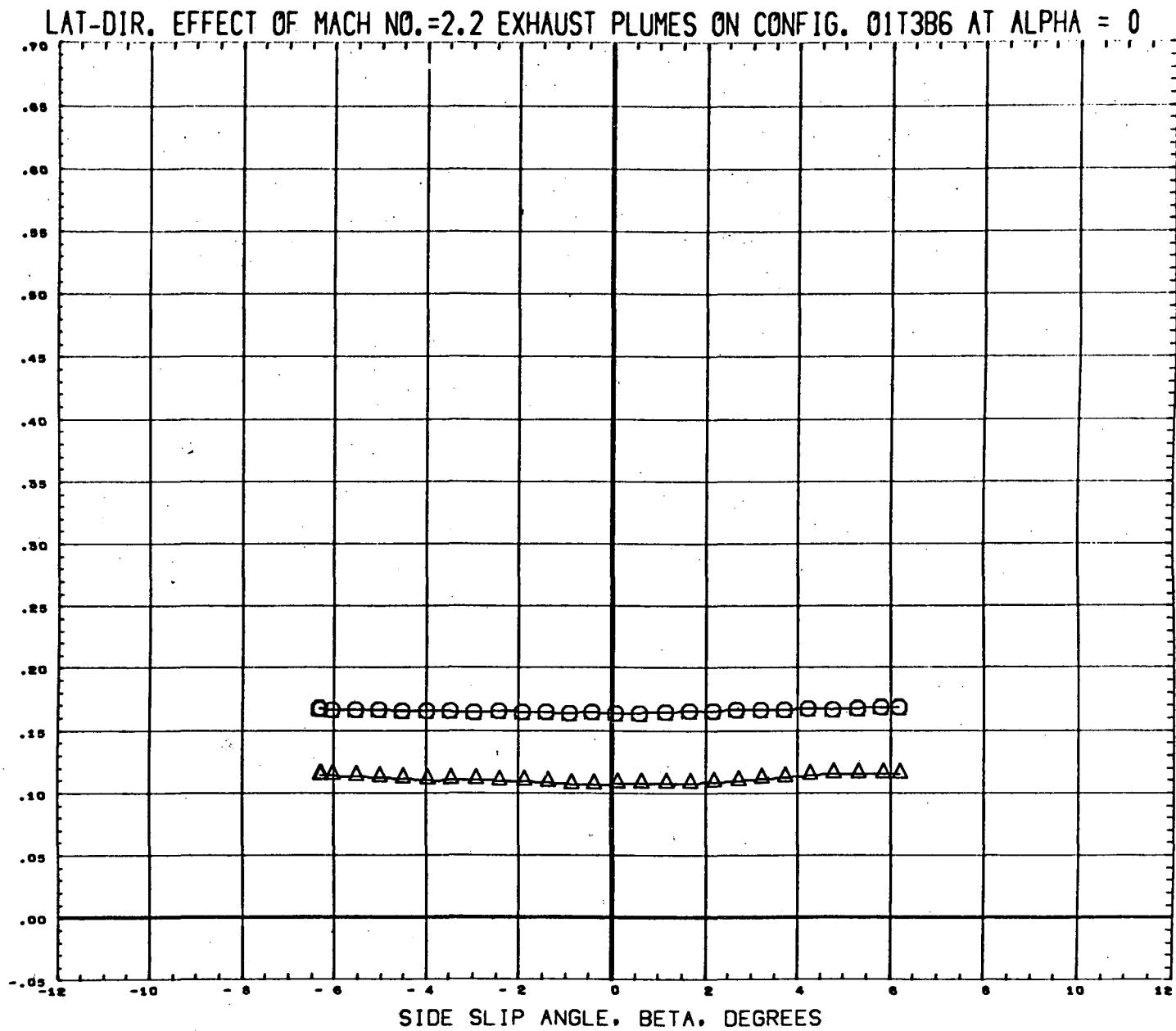


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
(RD7549)	○	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7563)	△	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME (2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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FOREBODY AXIAL FORCE COEFFICIENT. CAF



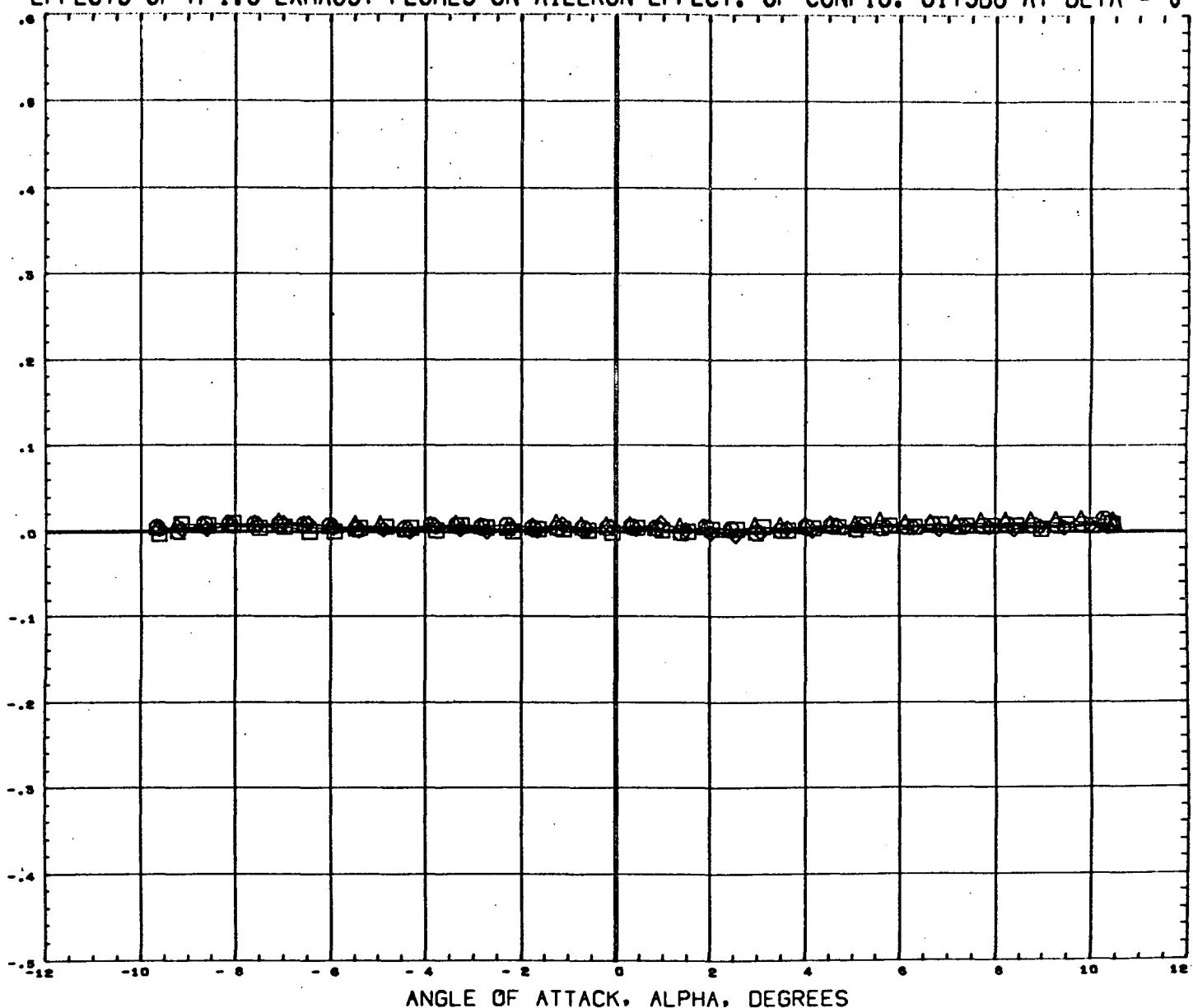
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(RD7549)	Q	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7563)	W	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH 2.20

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EFFECTS OF M=1.5 EXHAUST PLUMES ON AILERON EFFECT. OF CONFIG. 01T3B6 AT BETA = 0

LATERAL FORCE COEFFICIENT. CY



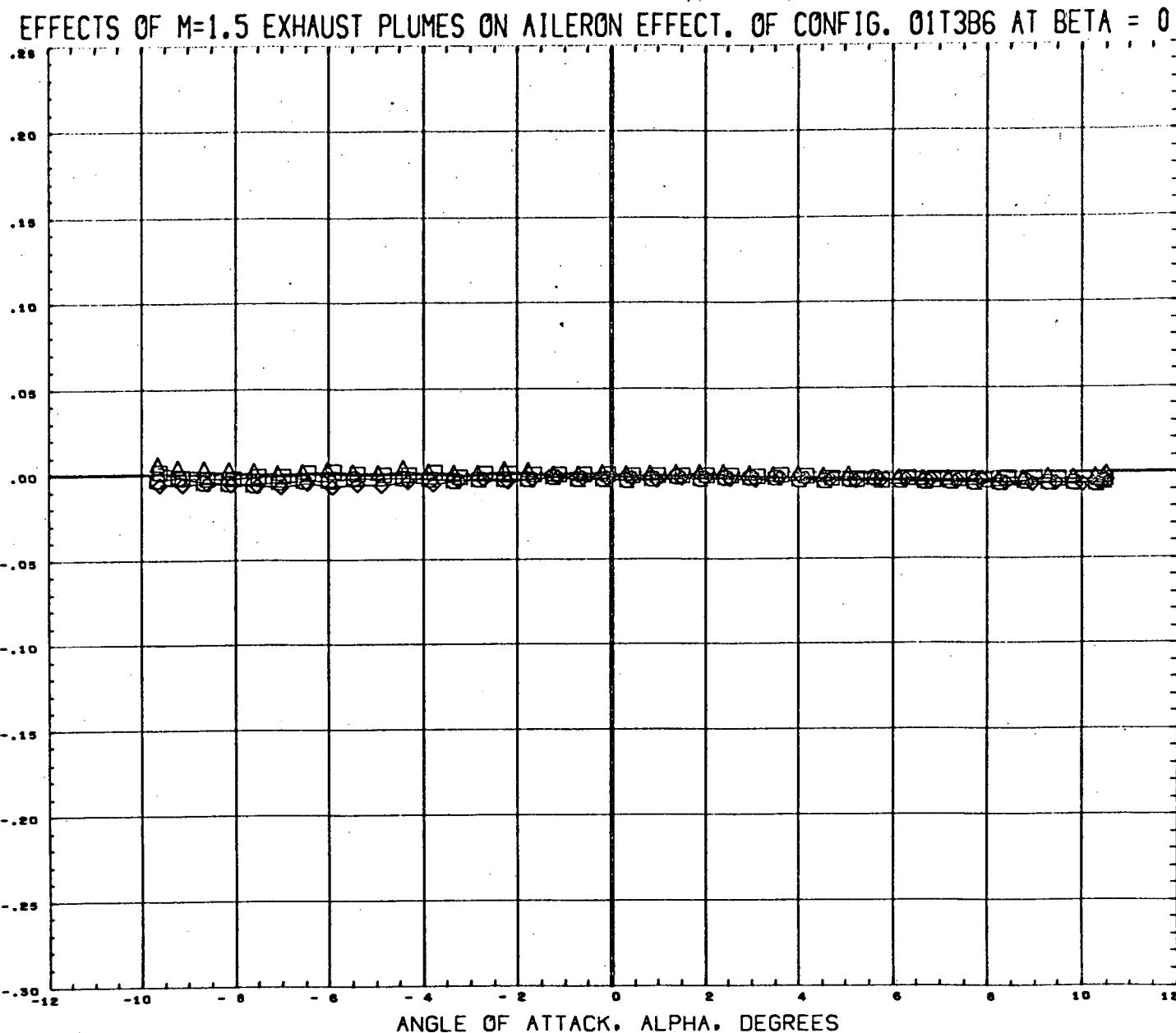
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(TD7546)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7550)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7556)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7558)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 4.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



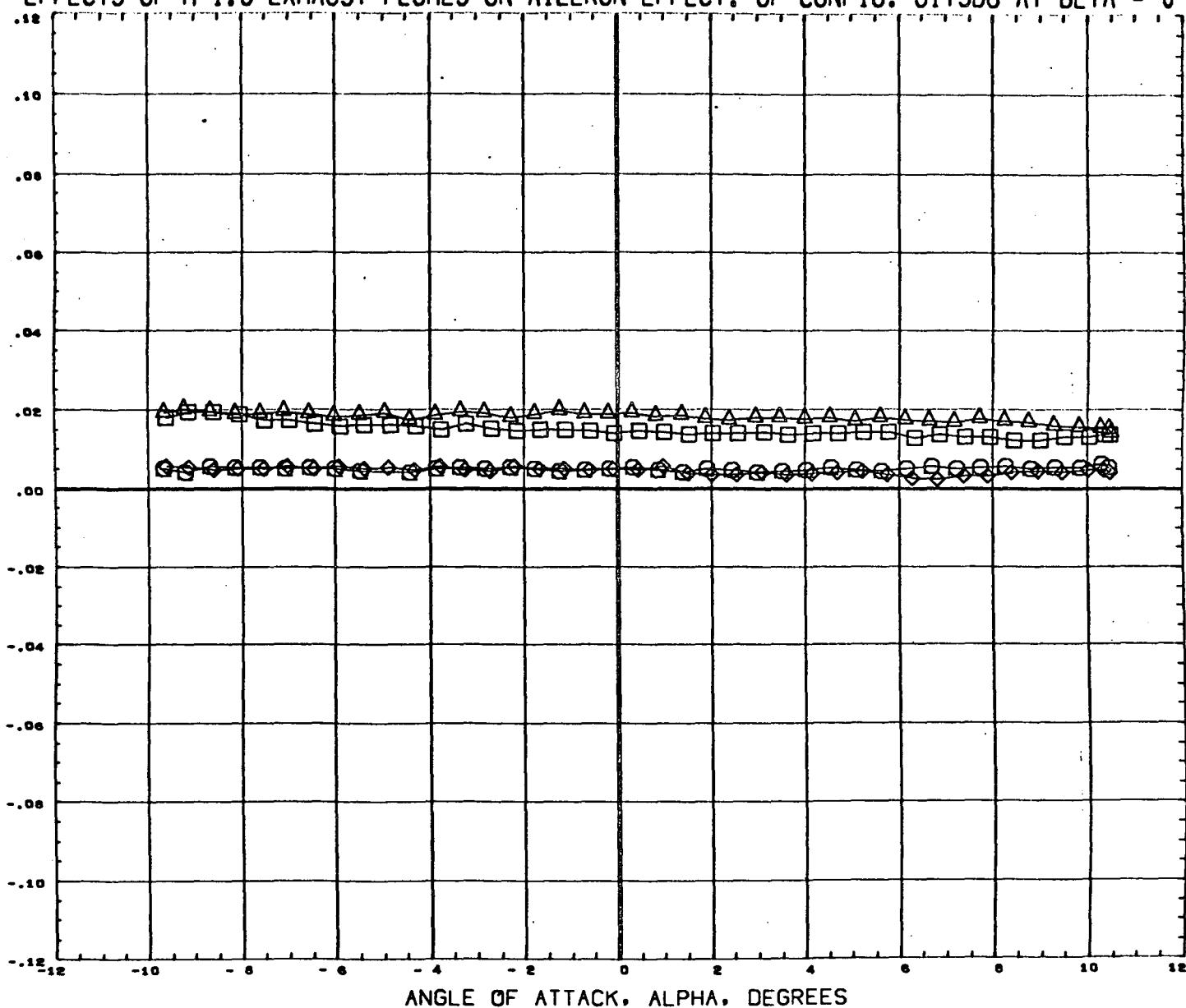
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(TD7548)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7550)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7556)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7558)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON AILERON EFFECT. OF CONFIG. O1T3B6 AT BETA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



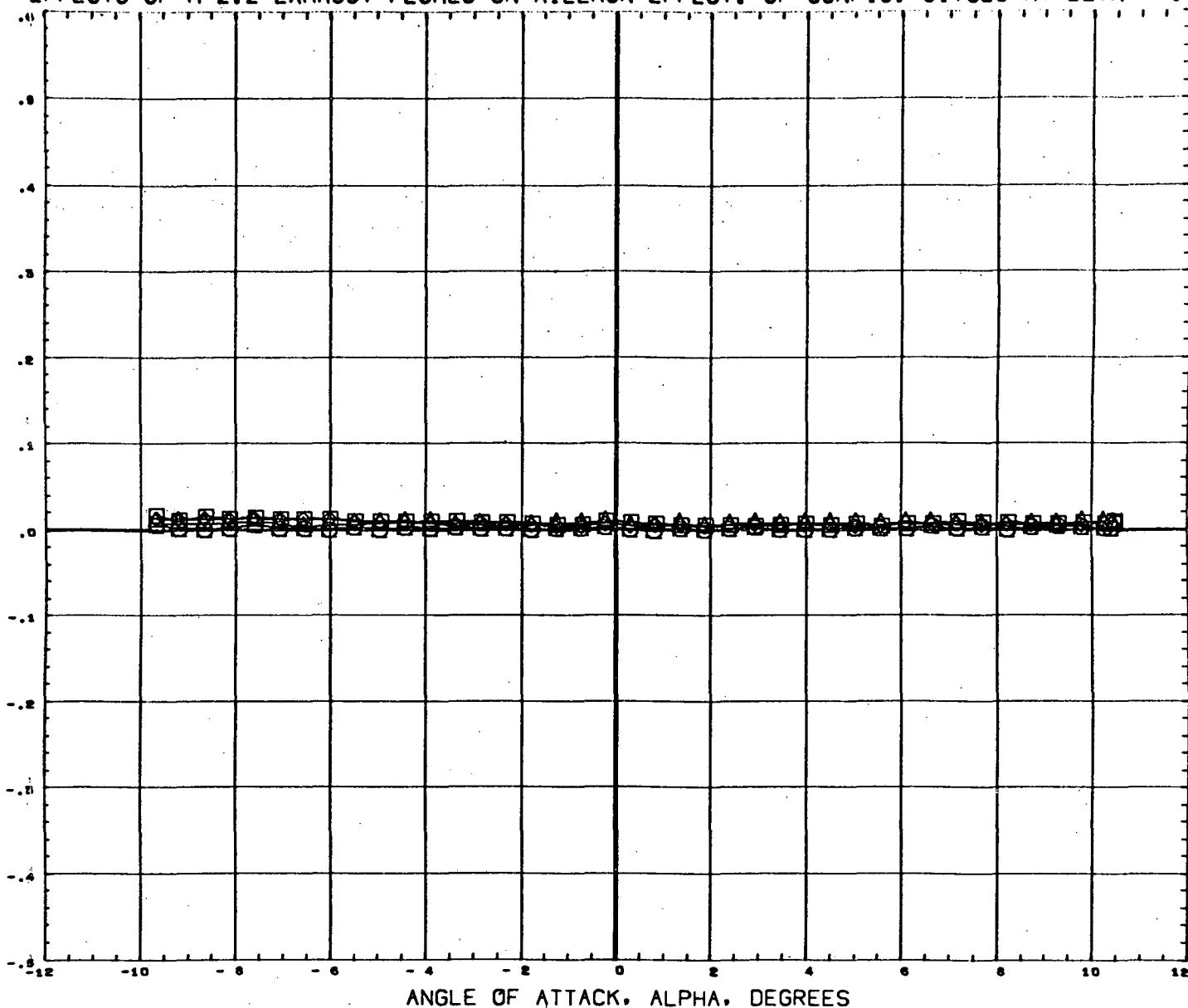
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(TD7548)	○	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7550)	○	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7556)	○	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7556)	□	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH 1.51

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EFFECTS OF M=2.2 EXHAUST PLUMES ON AILERON EFFECT. OF CONFIG. O1T3B6 AT BETA = 0

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(TD7548)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(TD7550)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(TD7562)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7564)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

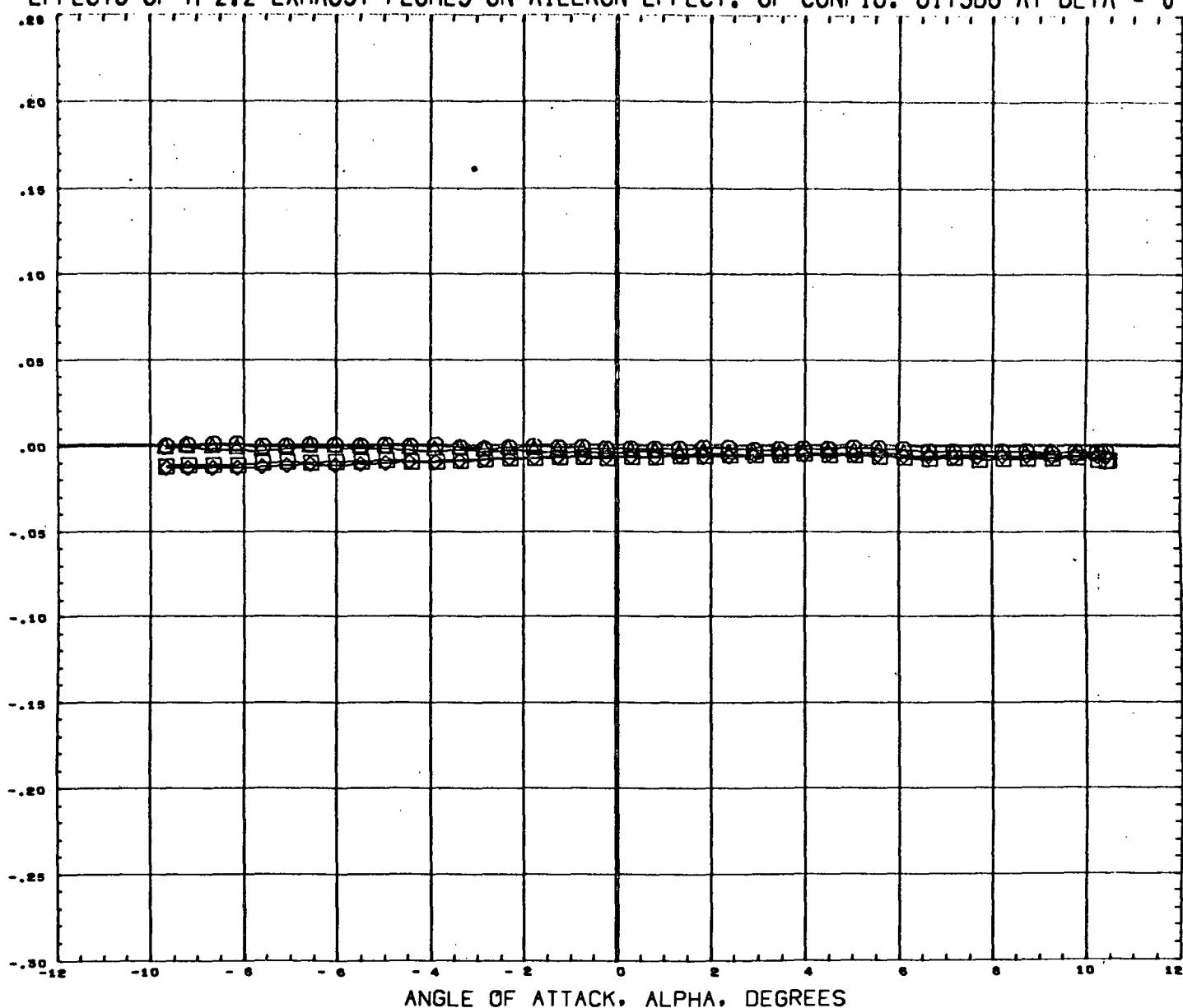
MACH

2.20

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EFFECTS OF M=2.2 EXHAUST PLUMES ON AILERON EFFECT. OF CONFIG. O1T3B6 AT BETA = 0

YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

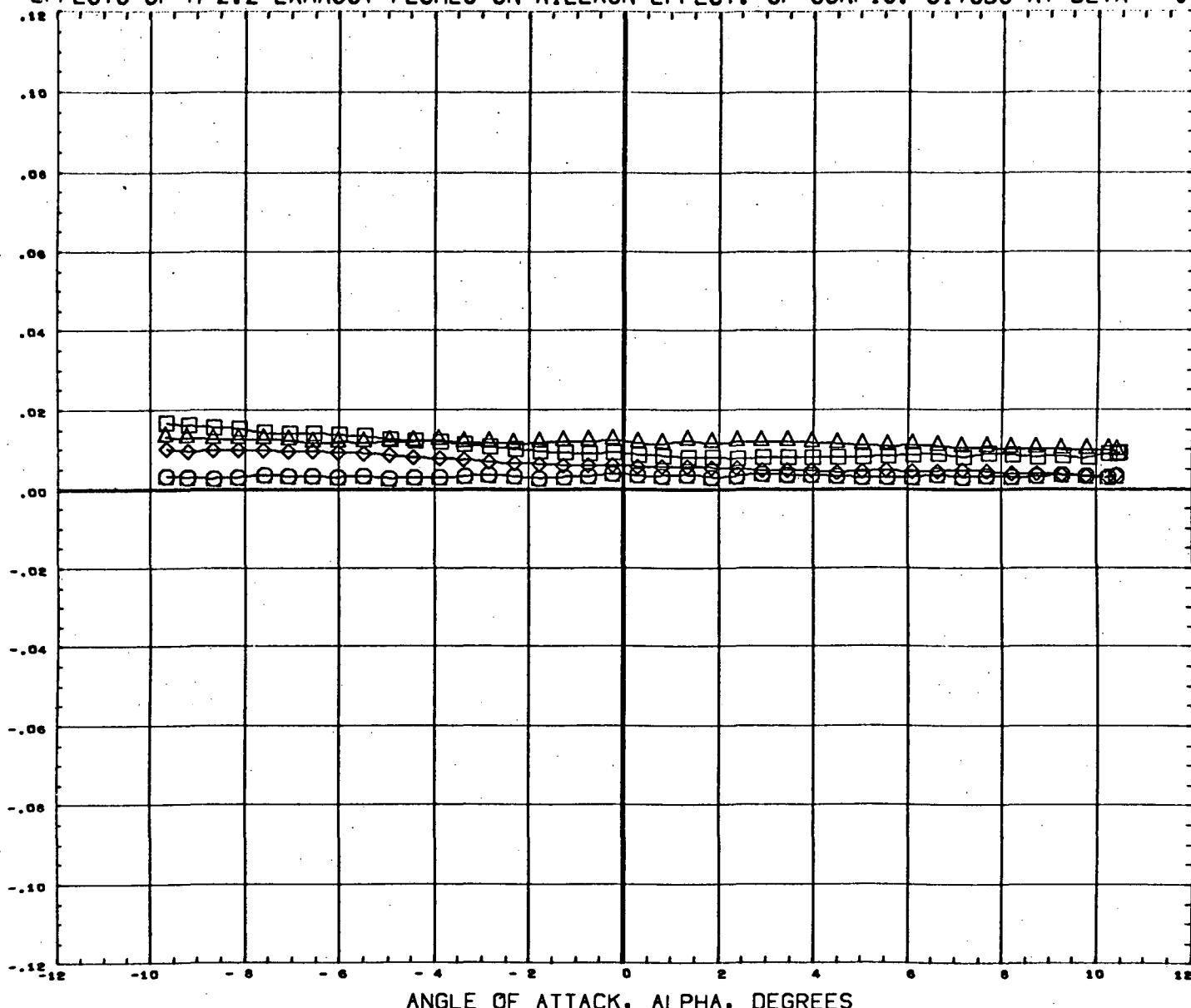
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(TD7546)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(TD7550)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(TD7562)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7564)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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EFFECTS OF M=2.2 EXHAUST PLUMES ON AILERON EFFECT. OF CONFIG. O1T3B6 AT BETA = 0

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



ANGLE OF ATTACK. ALPHA, DEGREES

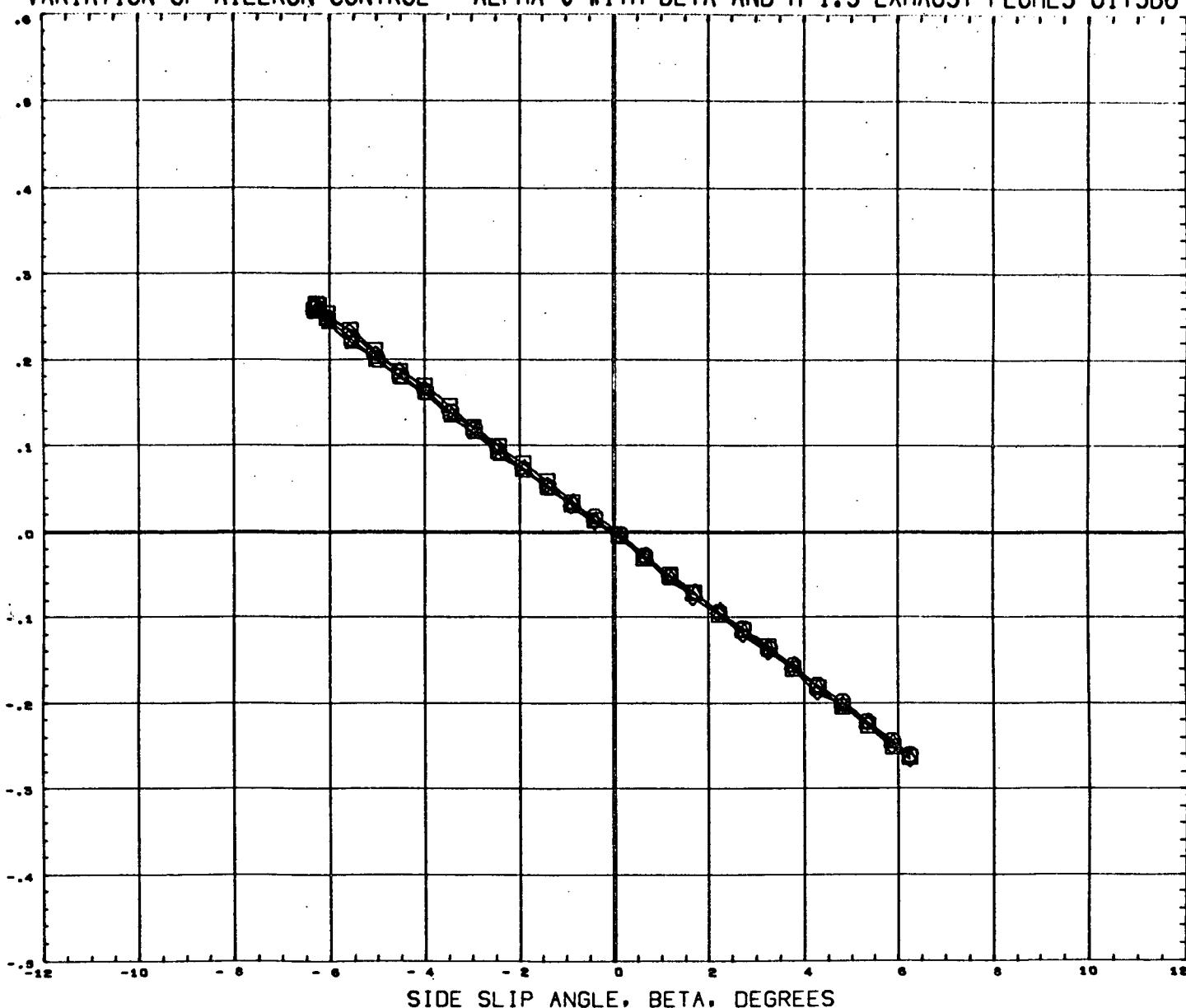
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(TD7548)	Q	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(TD7550)	△	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(TD7562)	◇	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(TD7564)	□	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH 2.20

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T3B6

LATERAL FORCE COEFFICIENT, CY



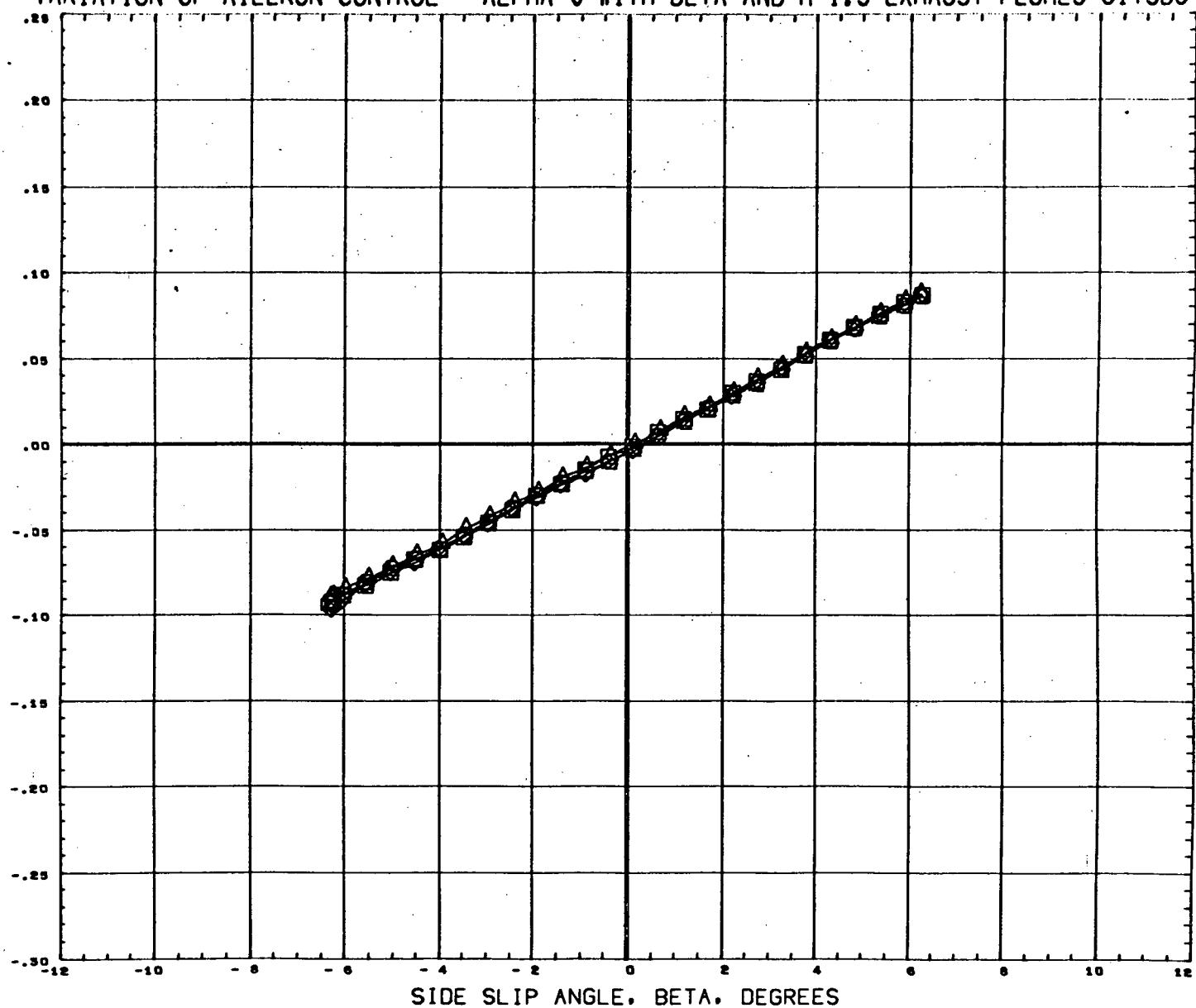
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION	
(RD7549)	○	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7551)	△	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(RD7557)	◇	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF	882.0004 IN.
(RD7559)	□	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (1.5)	0.000	0.000	20.000	0.000	XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 1.51

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T3B6

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

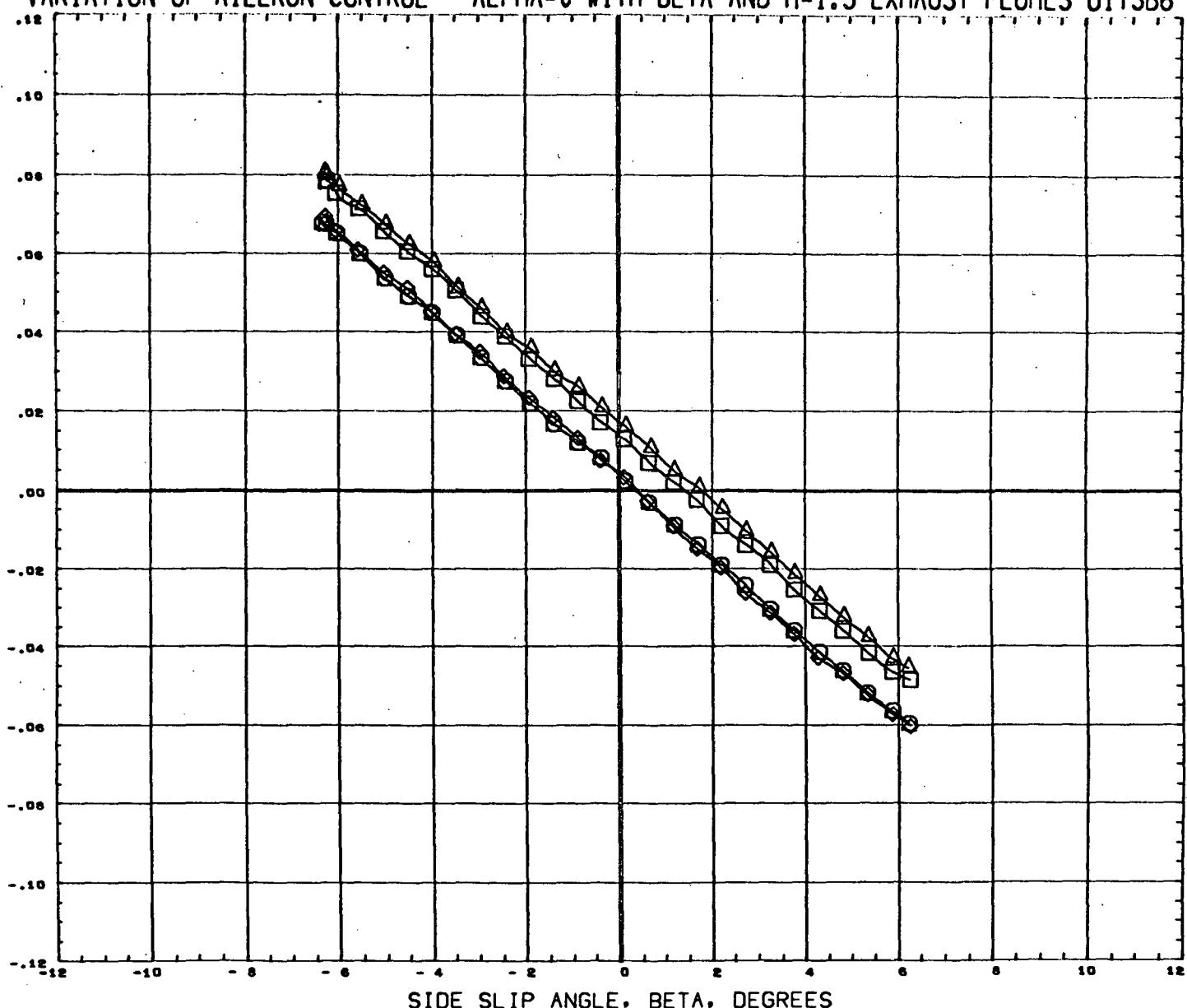
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7551)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7557)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7559)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T3B6

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

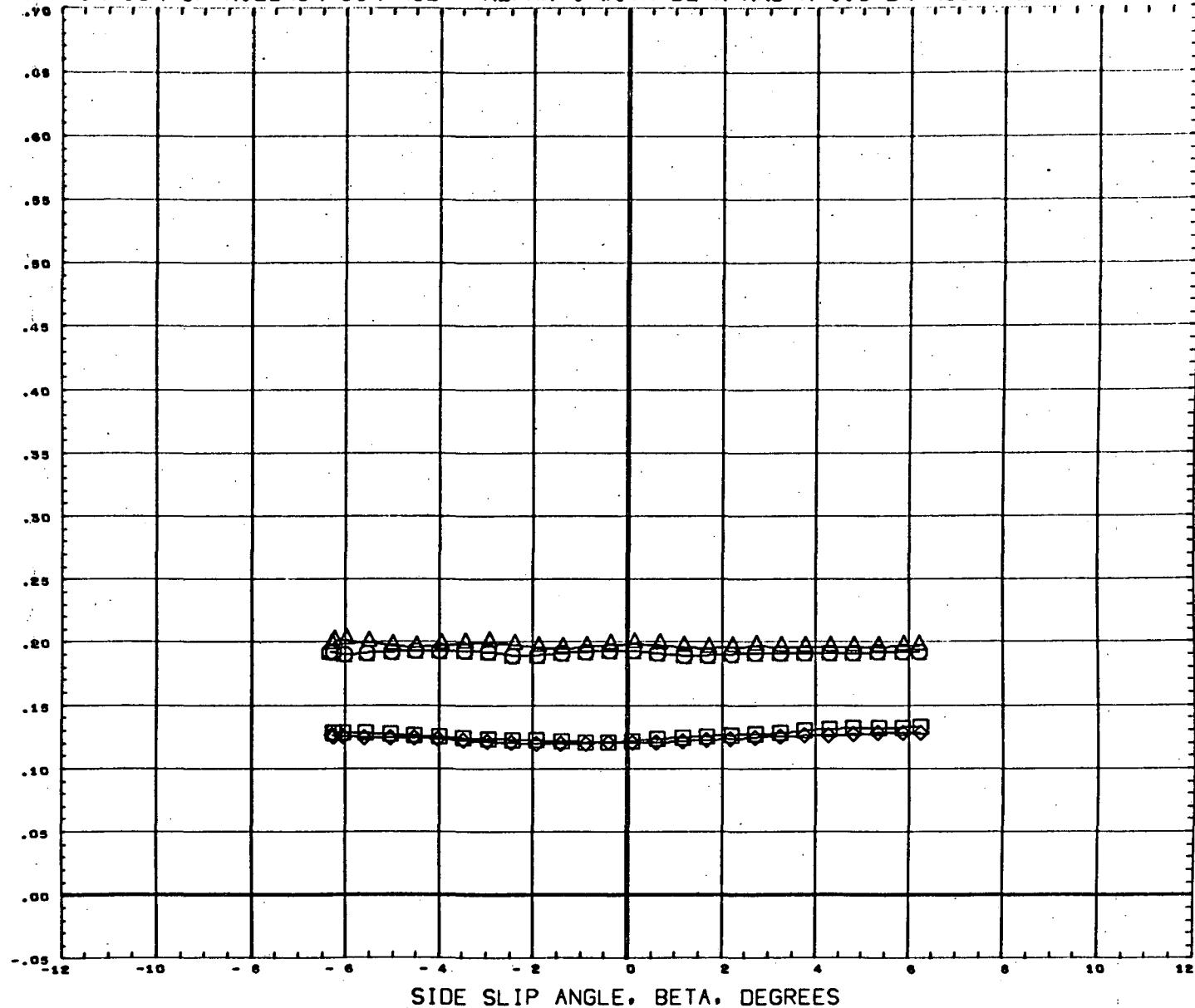
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7551)	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7557)	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7559)	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (1.5)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=1.5 EXHAUST PLUMES O1T3B6

FOREBODY AXIAL FORCE COEFFICIENT, CAF



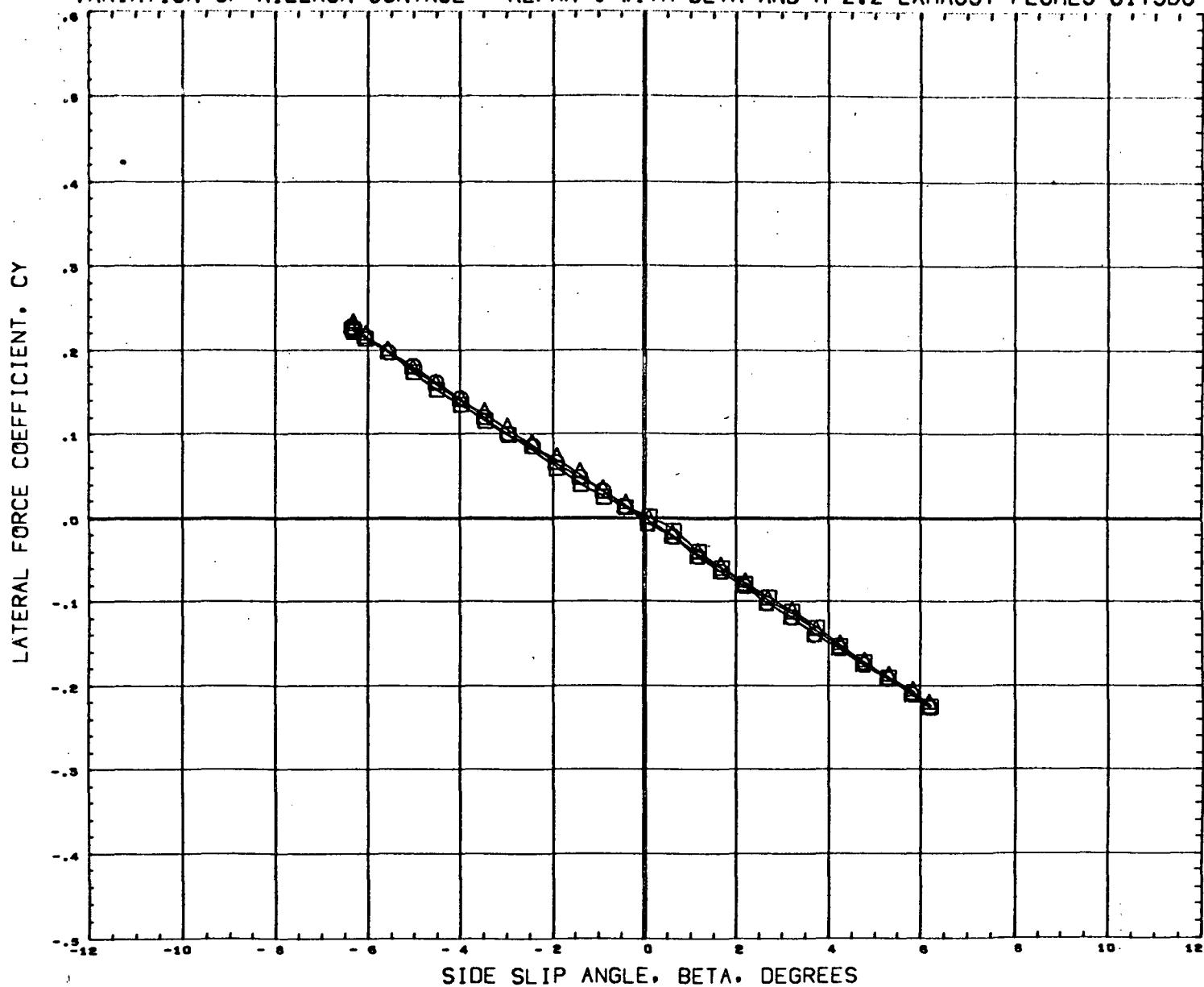
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	IN. FT.
(RD7549)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	LREF	609.5004
(RD7551)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	BREF	682.0004
(RD7557)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	XMRP	557.0004
(RD7559)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	20.000	0.000	YMRP	0.0000
						ZMRP	200.0004
						SCALE	0.0060

MACH 1.51

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=2.2 EXHAUST PLUMES O1T3B6



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SG.FT.
(RD7551)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7557)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7565)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

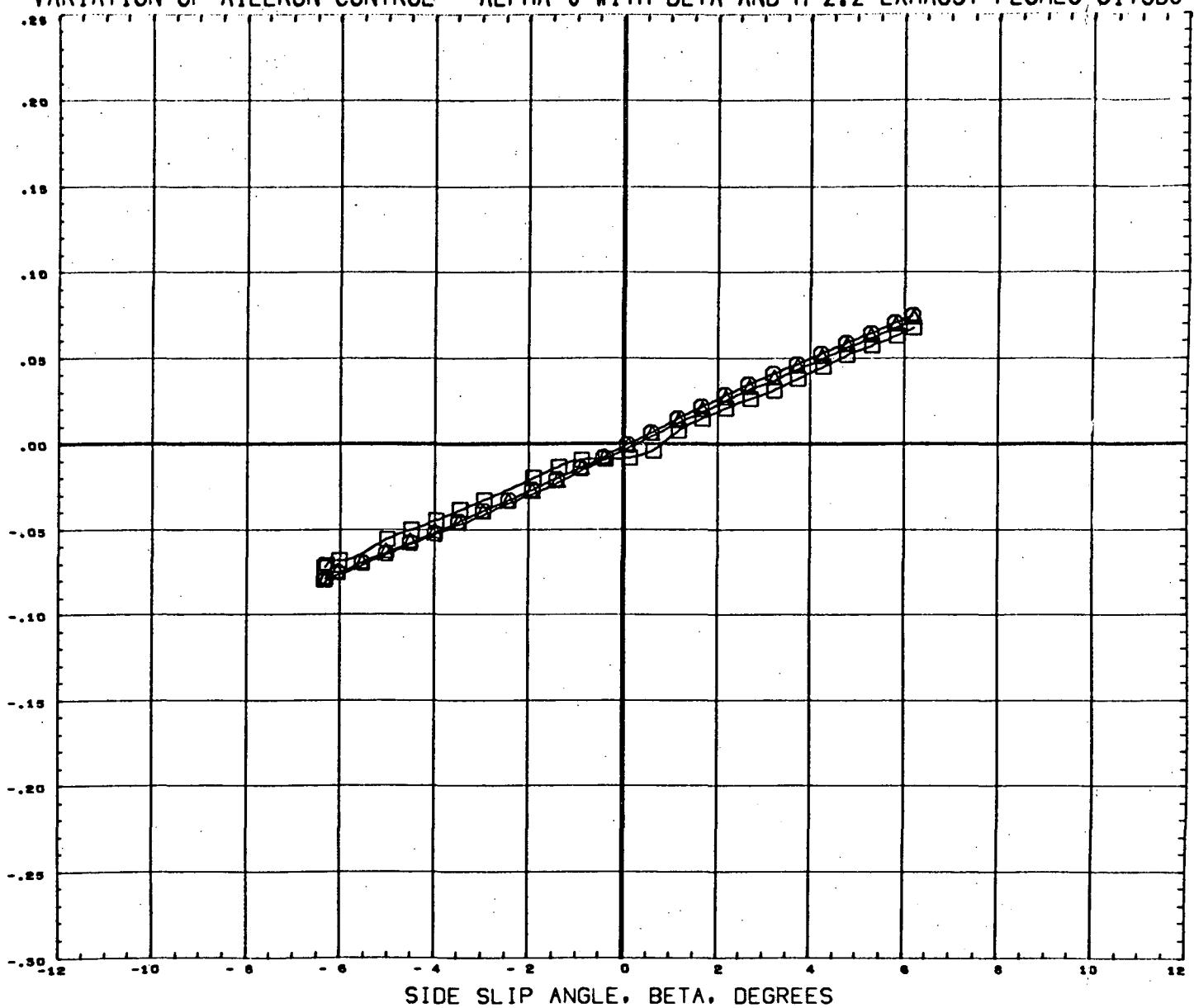
MACH

2.20

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=2.2 EXHAUST PLUMES O1T3B6

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



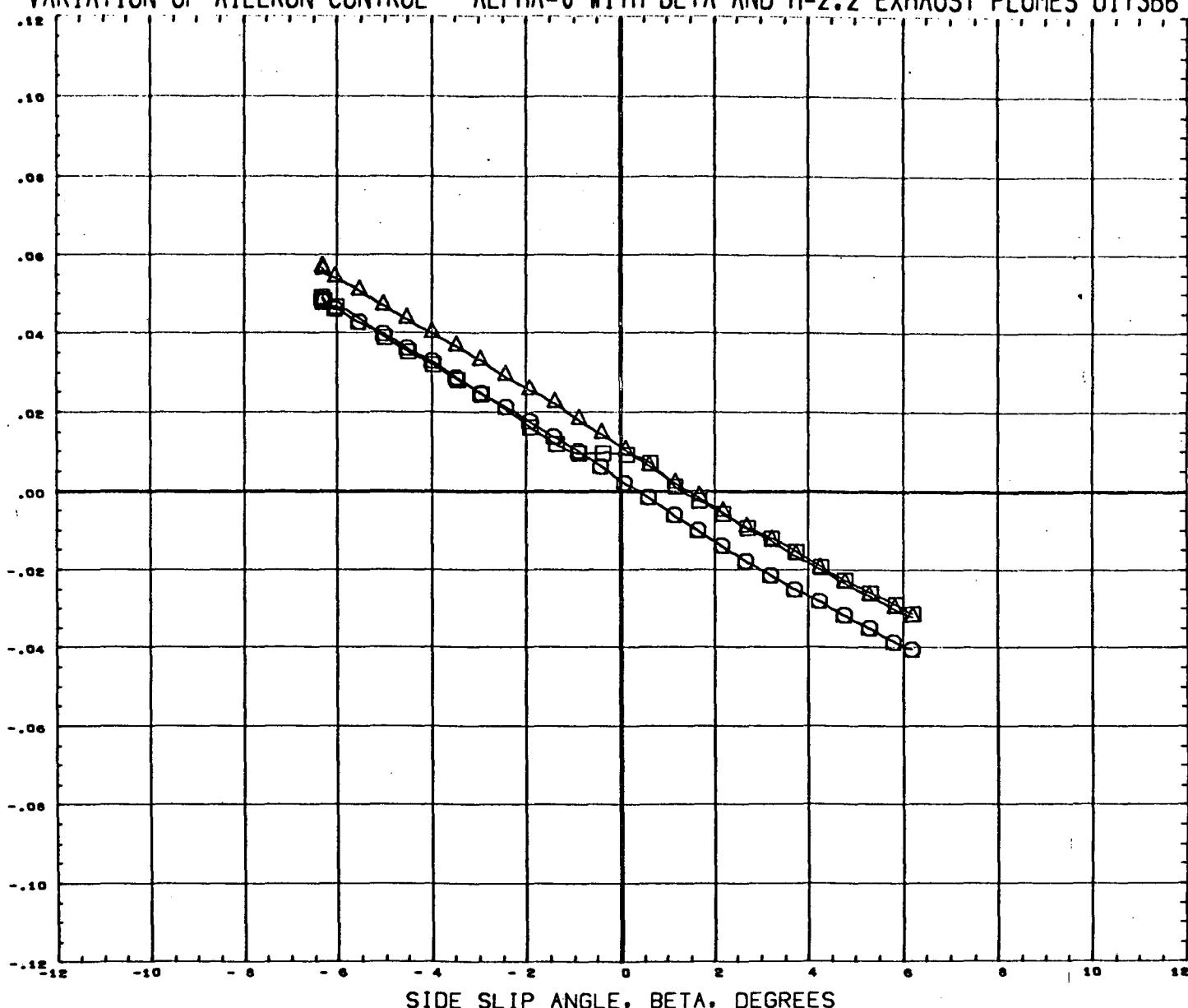
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
(RD7549)	○	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(RD7551)	△	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF	609.5004	IN.
(RD7557)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	682.0004	IN.
(RD7565)	□	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	20.000	0.000	XMRP	557.0004	IN.
							YMRP	0.0000	IN.
							ZMRP	200.0004	IN.
							SCALE	0.0060	

MACH 2.20

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VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=2.2 EXHAUST PLUMES 01T3B6

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE (T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7551)	MDAC S-222 COMPOSITE (T-CG) 01T3B6	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7557)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 862.0004 IN.
(RD7565)	MDAC S-222 COMPOSITE (T-CG) 01T3B6+PLUME (2.2)	0.000	0.000	20.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

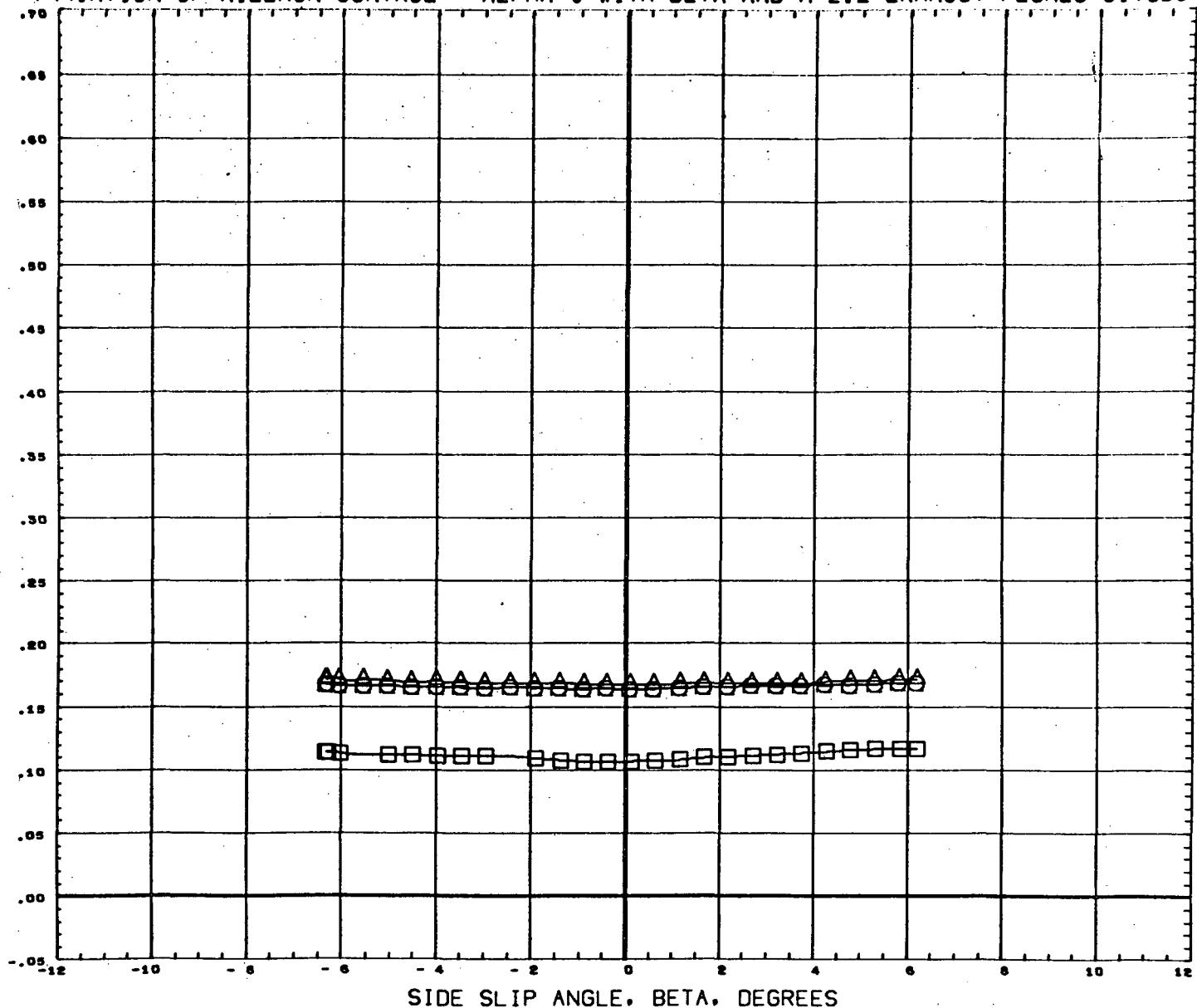
MACH

2.20

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FOREBODY AXIAL FORCE COEFFICIENT. CAF

VARIATION OF AILERON CONTROL ALPHA=0 WITH BETA AND M=2.2 EXHAUST PLUMES O1T3B6



SIDE SLIP ANGLE, BETA, DEGREES

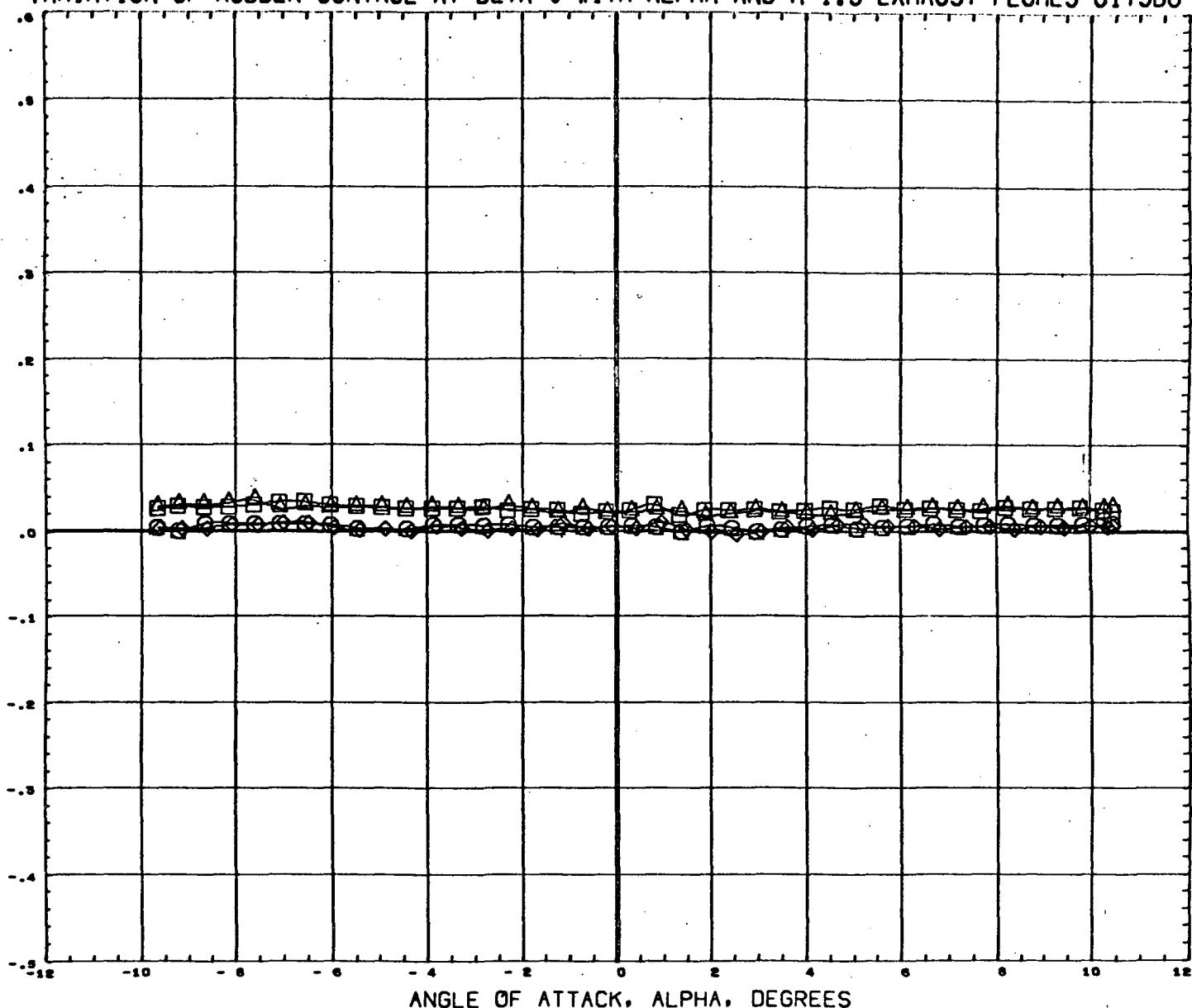
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD7549)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7551)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(RD7557)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	882.0004 IN.
(RD7565)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME (2.2)	0.000	0.000	20.000	0.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=1.5 EXHAUST PLUMES O1T3B6

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(TD7546)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(TD7556)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7536)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(TD7560)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

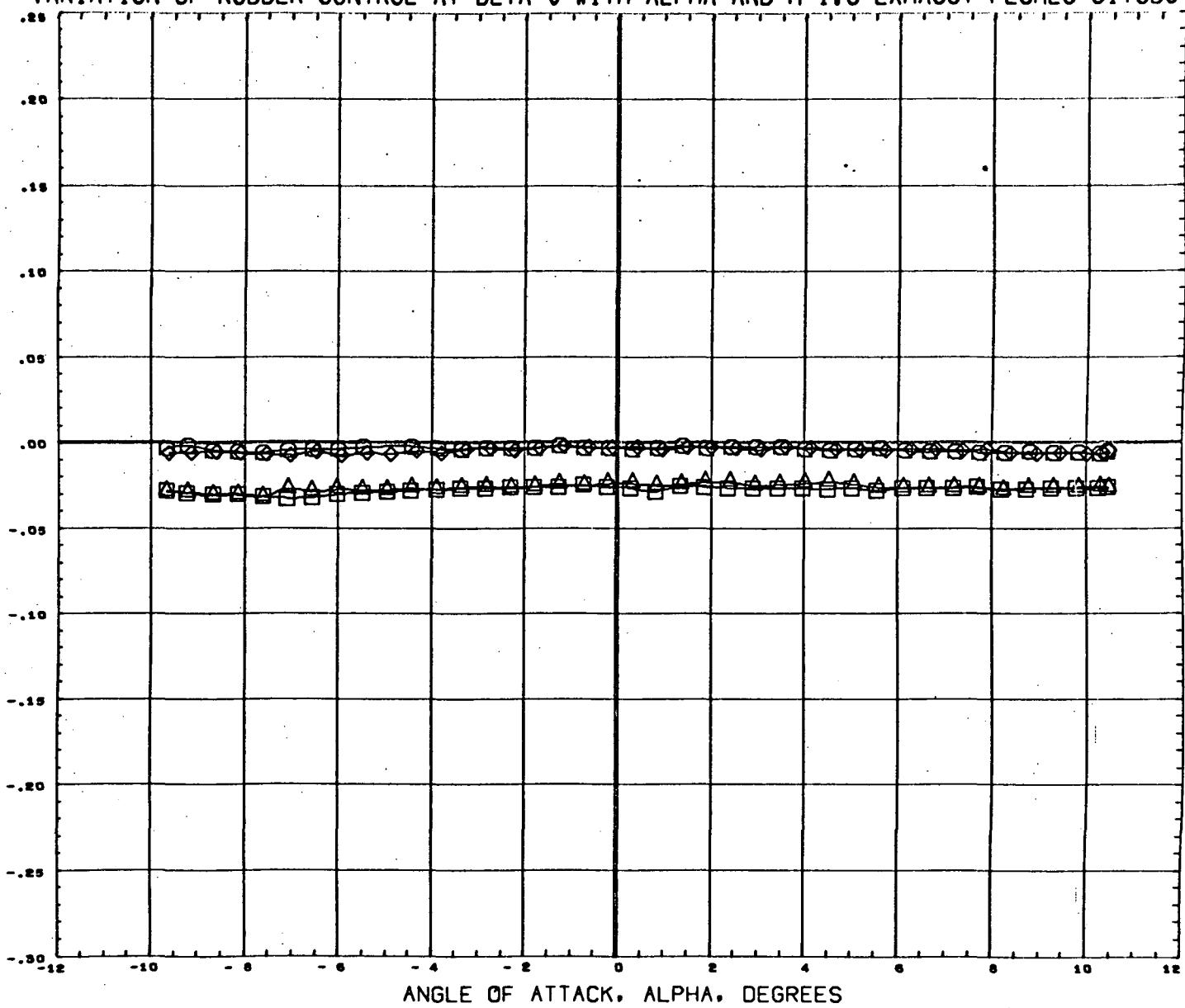
MACH

1.51

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=1.5 EXHAUST PLUMES O1T3B6

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



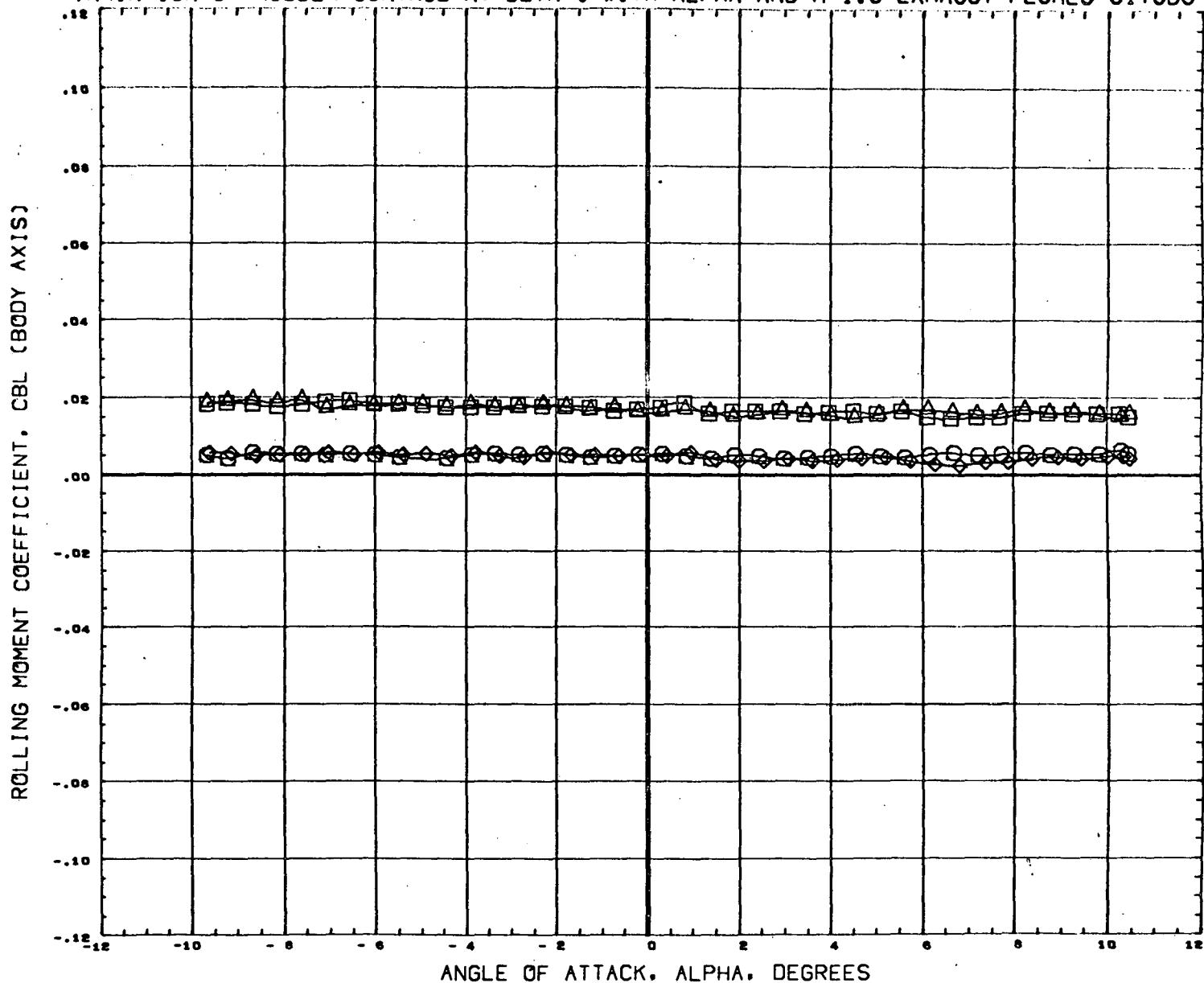
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(TD7548)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(TD7552)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(TD7556)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(TD7560)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=1.5 EXHAUST PLUMES 01T3B6

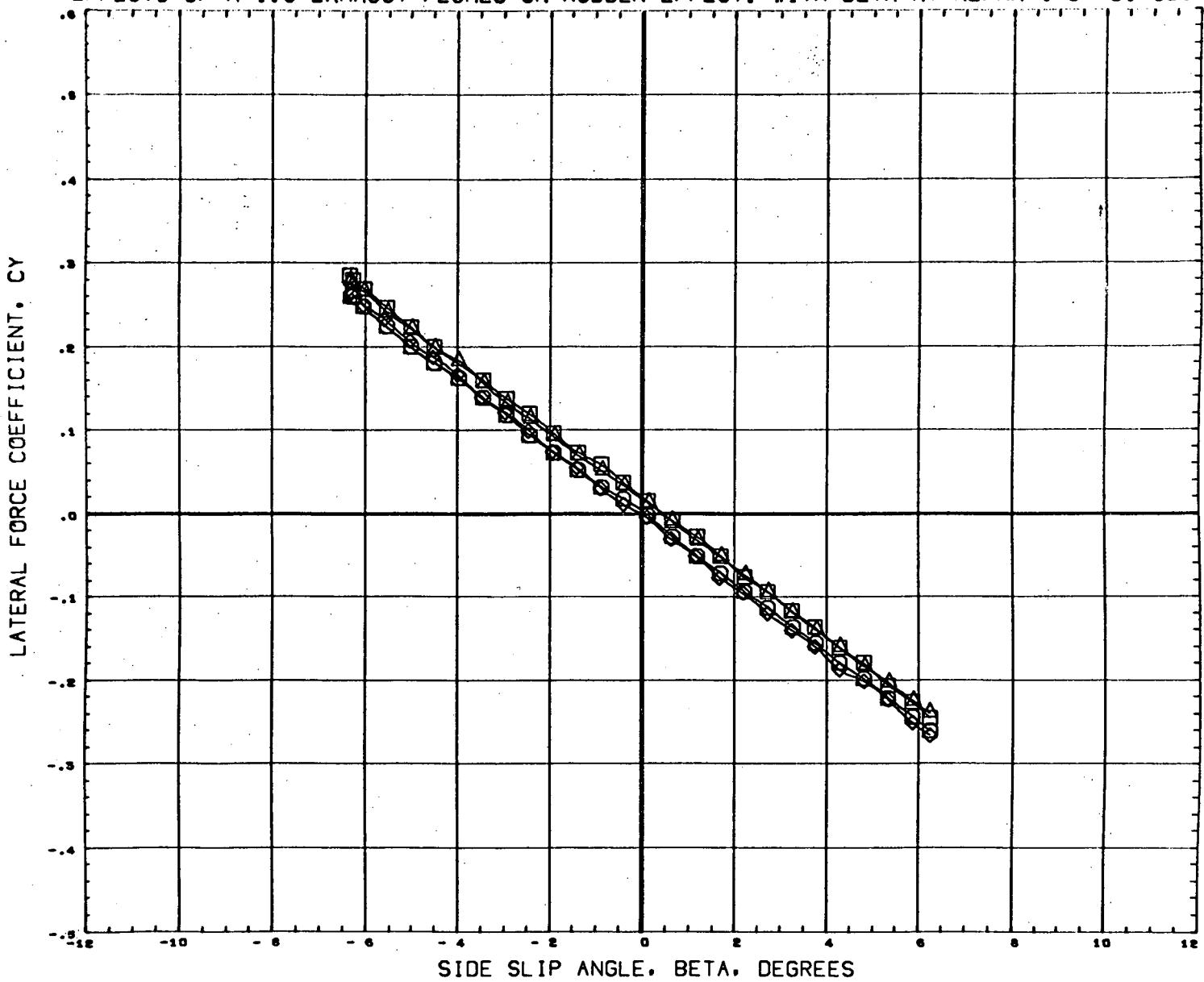


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(TD7548)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(TD7552)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7556)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(TD7560)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF 01T3B6



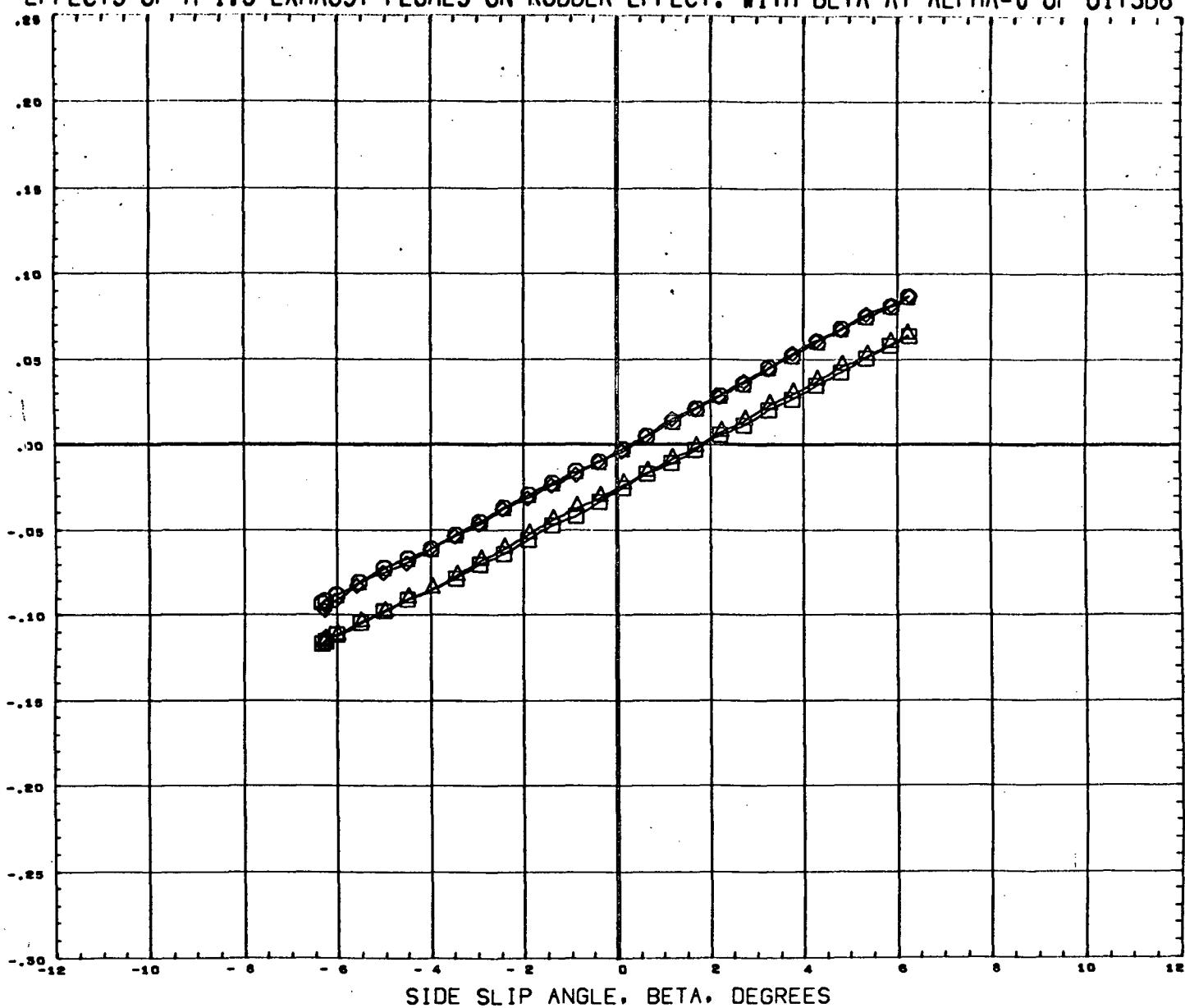
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7549)	○	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7553)	△	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7557)	◇	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7561)	□	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF O1T3B6

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



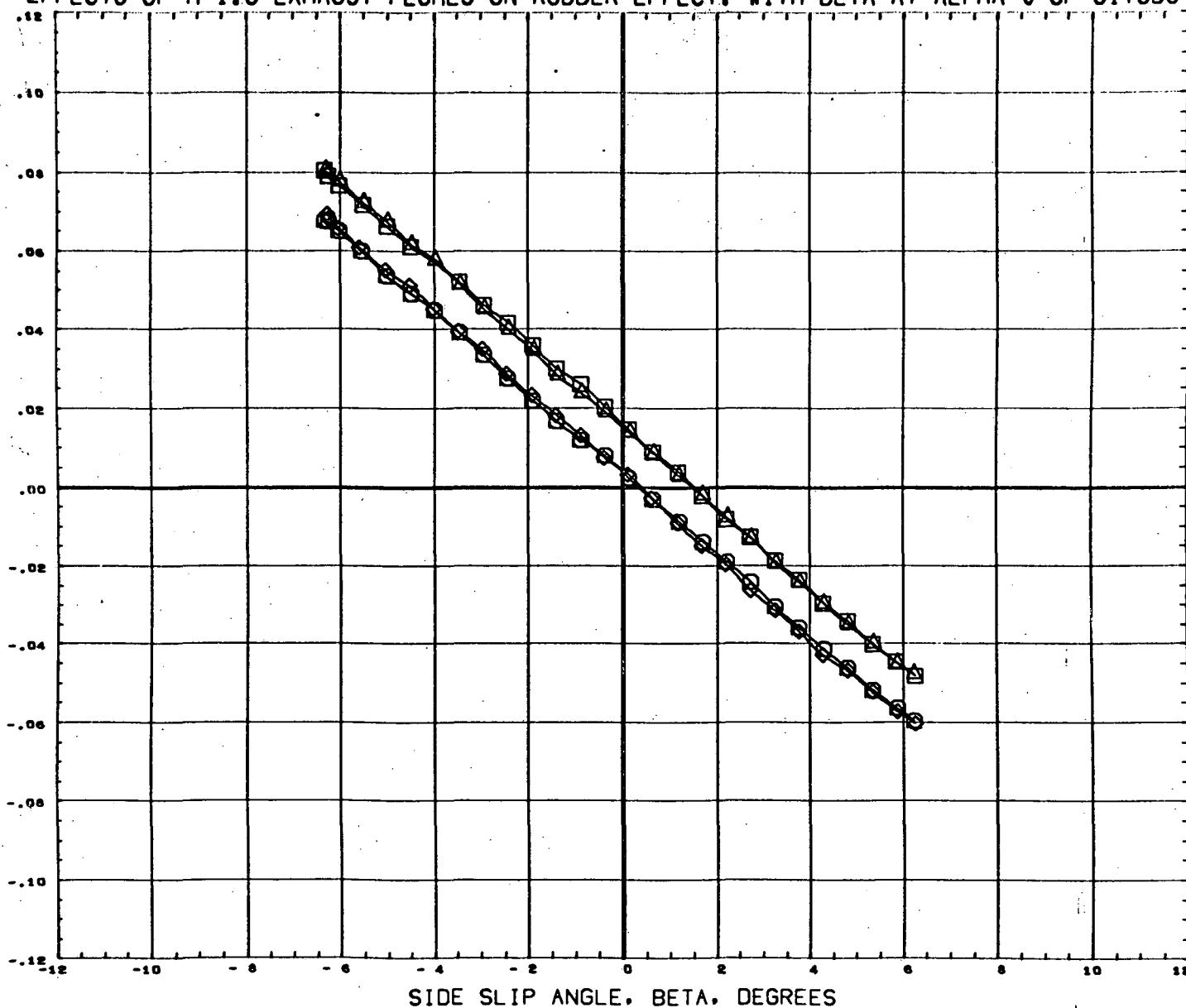
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRRON	RUDDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3195.3040 SQ.FT.
(RD7553)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7557)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7561)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 997.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF 01T3B6

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



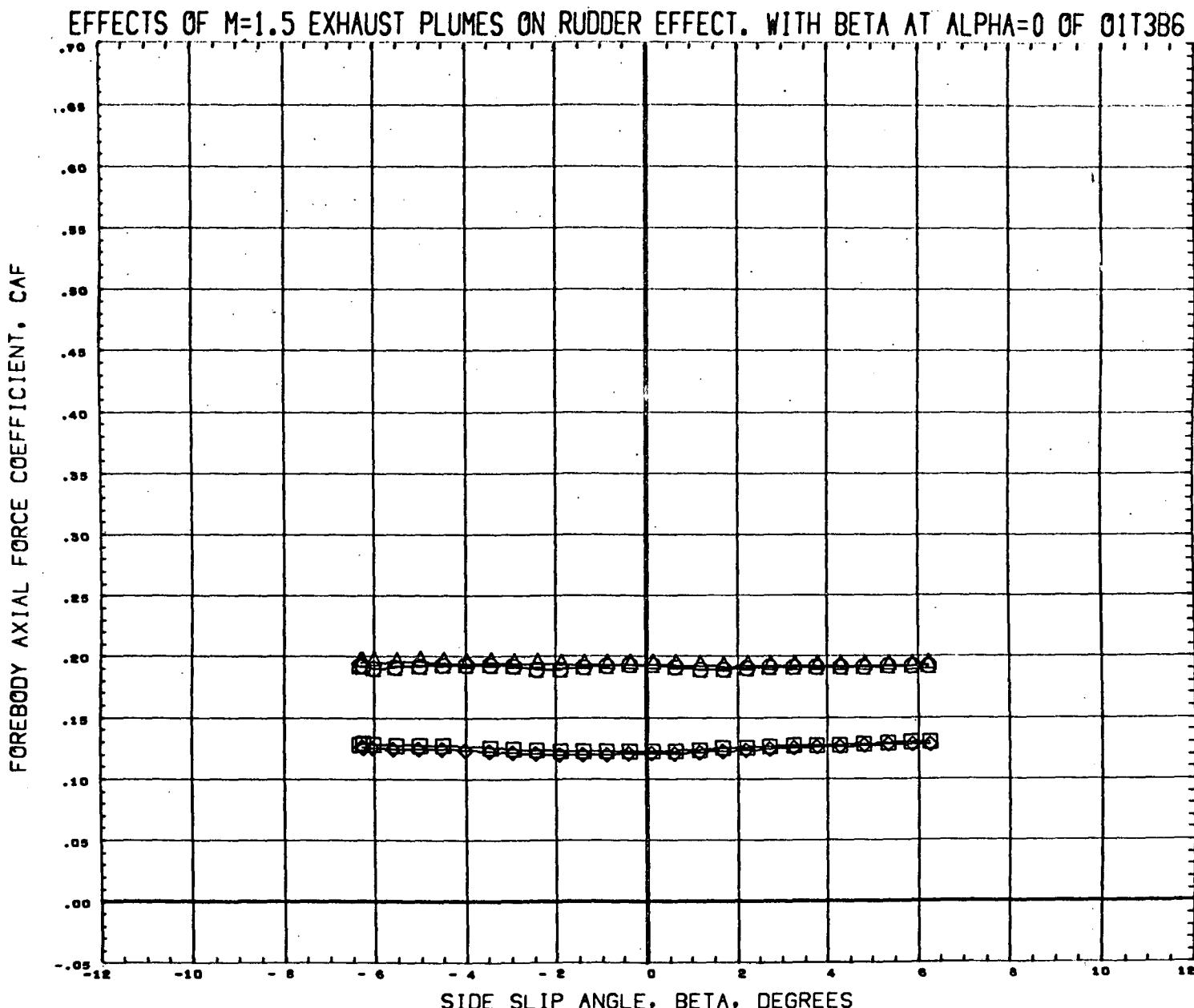
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7549)	○	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7553)	◇	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7557)	◇	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7561)	□	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(1.5)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH

1.51

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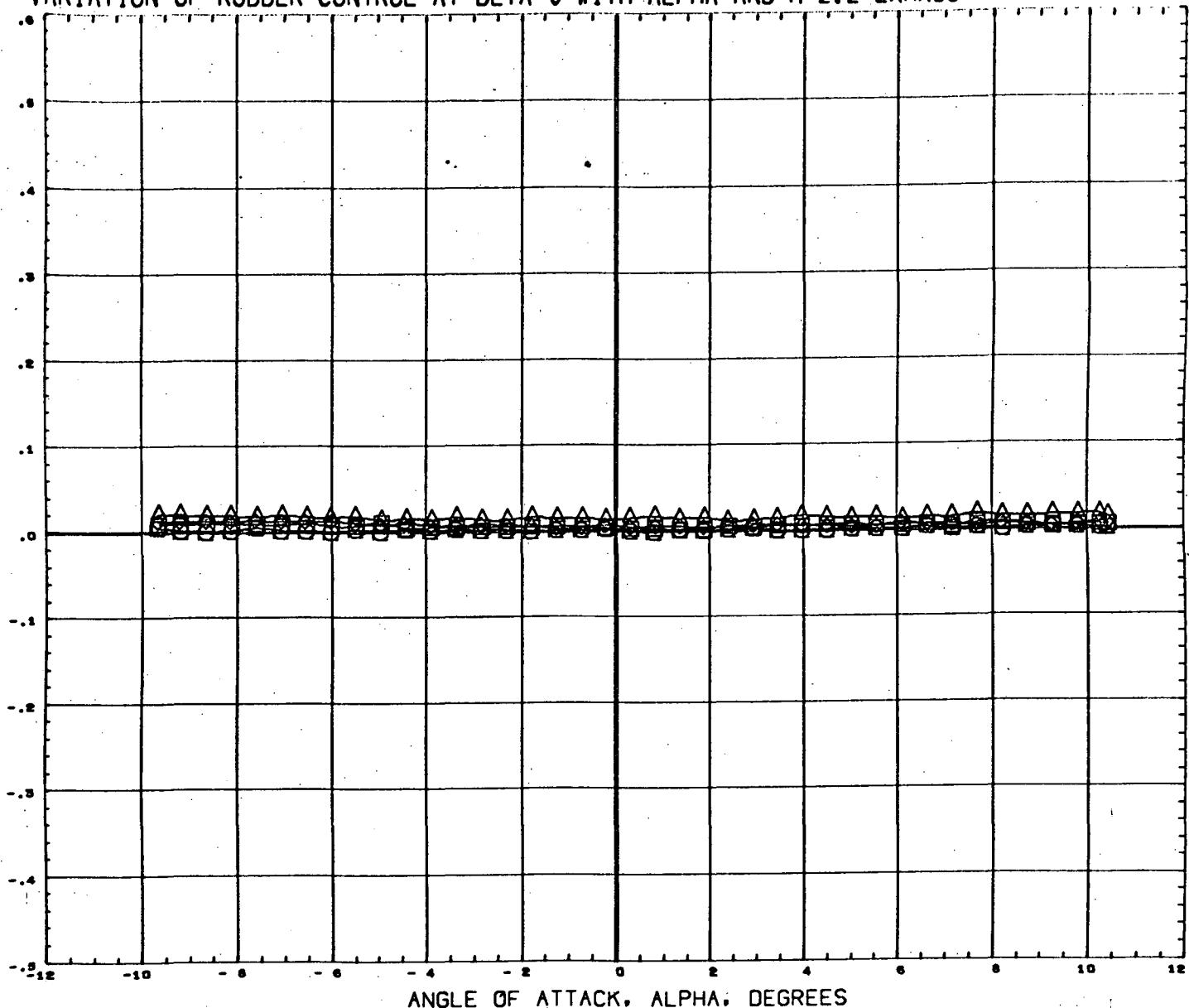
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7553)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7557)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7561)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(1.5)	0.000	0.000	0.000	10.000	XHRP 557.0004 IN.
						YHRP 0.0000 IN.
						ZHRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=2.2 EXHAUST PLUMES 01T3B6

LATERAL FORCE COEFFICIENT, CY



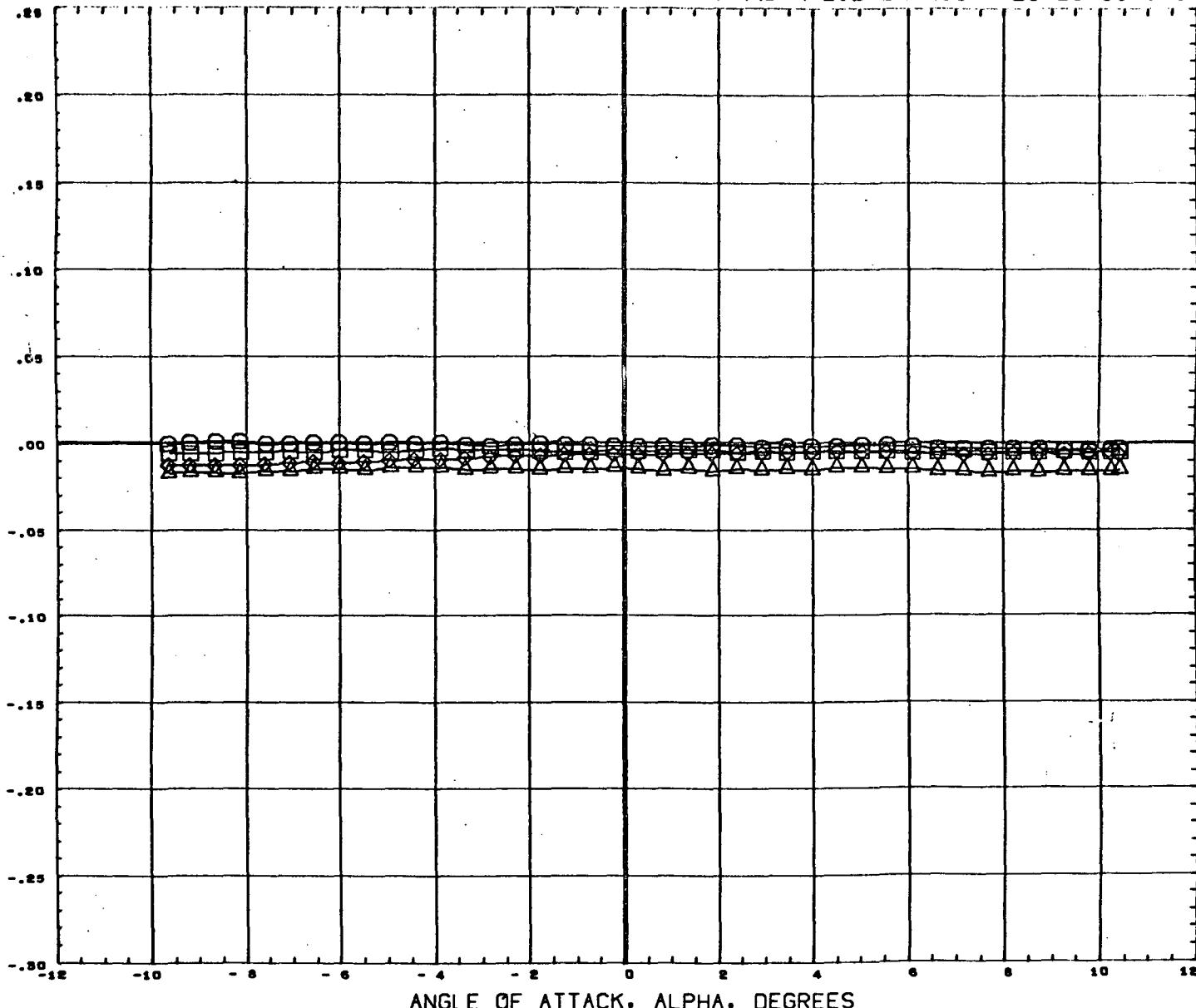
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
		0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(TD7546)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	10.000	LREF	609.5004	IN.
(TD7552)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	BREF	882.0004	IN.
(TD7562)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	XHRP	557.0004	IN.
(TD7566)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	10.000	YHRP	0.0000	IN.
						ZHRP	200.0004	IN.
						SCALE	0.0060	

MACH 2.20

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=2.2 EXHAUST PLUMES O1T3B6

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

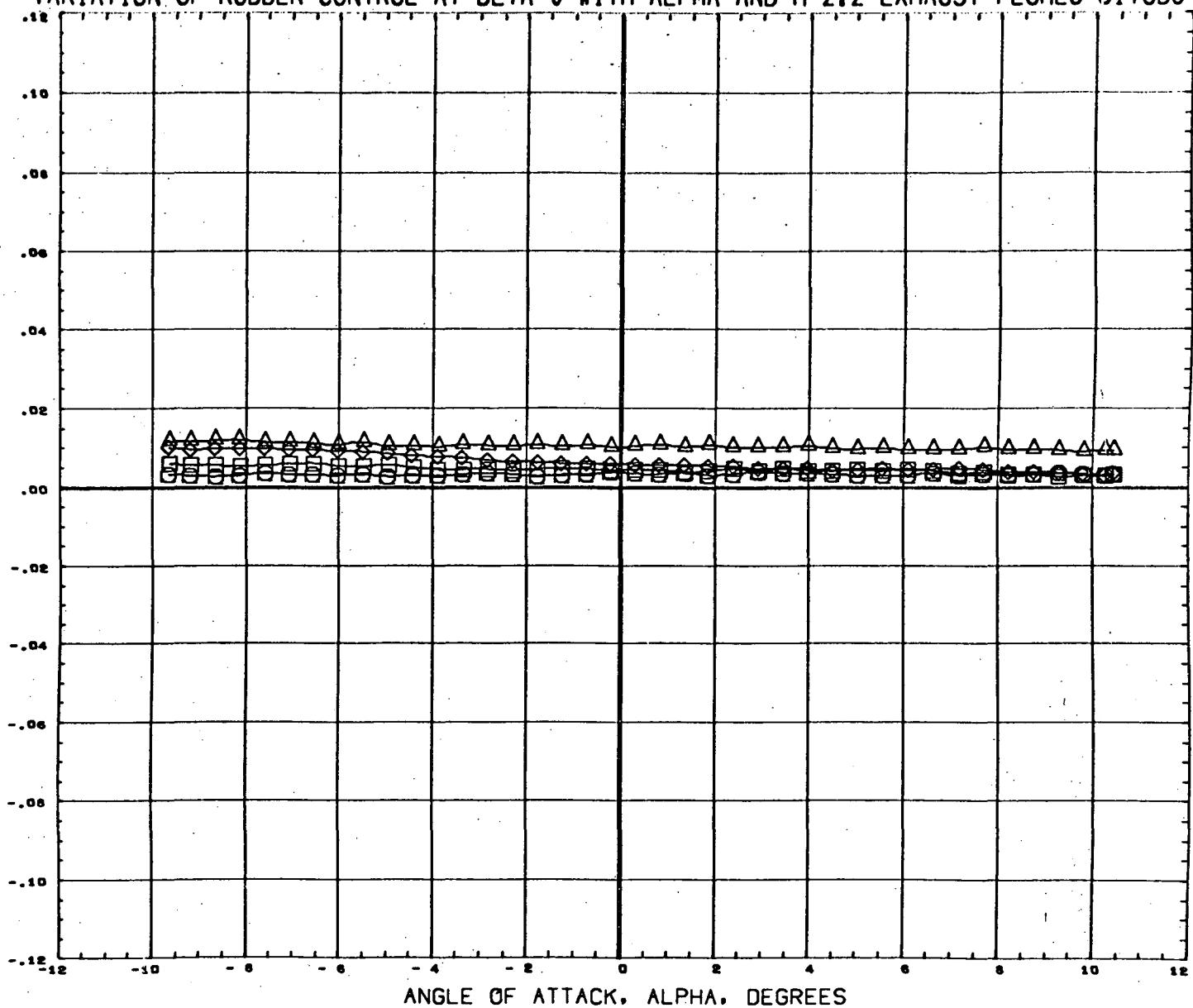
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(TD7546)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(TD7552)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(TD7562)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME (2.2)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(TD7566)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME (2.2)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL AT BETA=0 WITH ALPHA AND M=2.2 EXHAUST PLUMES O1T3B6

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



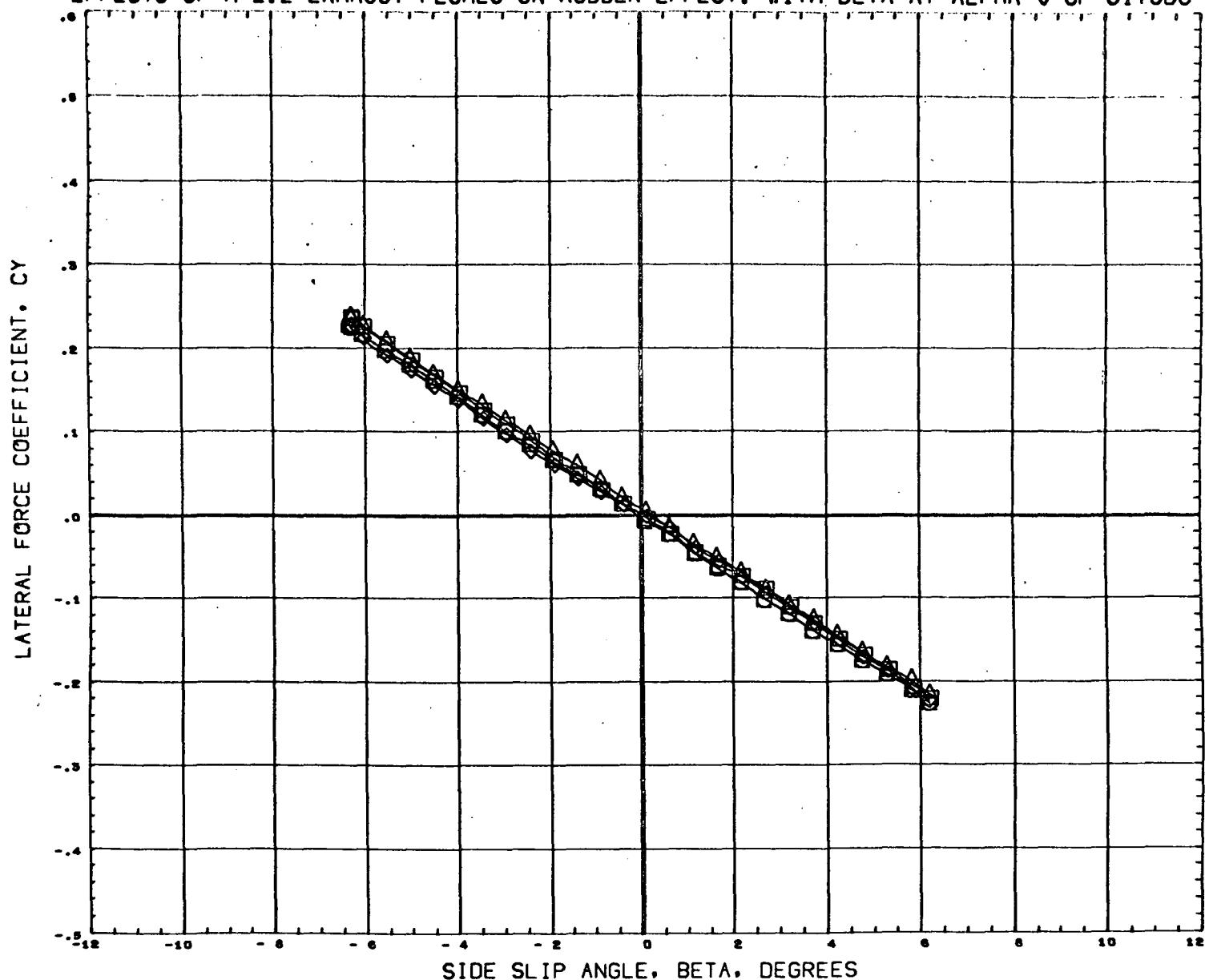
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(TD7548)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(TD7552)	MDAC S-222 COMPOSITE(T-CG) O1T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(TD7562)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	BREF 662.0004 IN.
(TD7566)	MDAC S-222 COMPOSITE(T-CG) O1T3B6+PLUME(2.2)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF 01T3B6



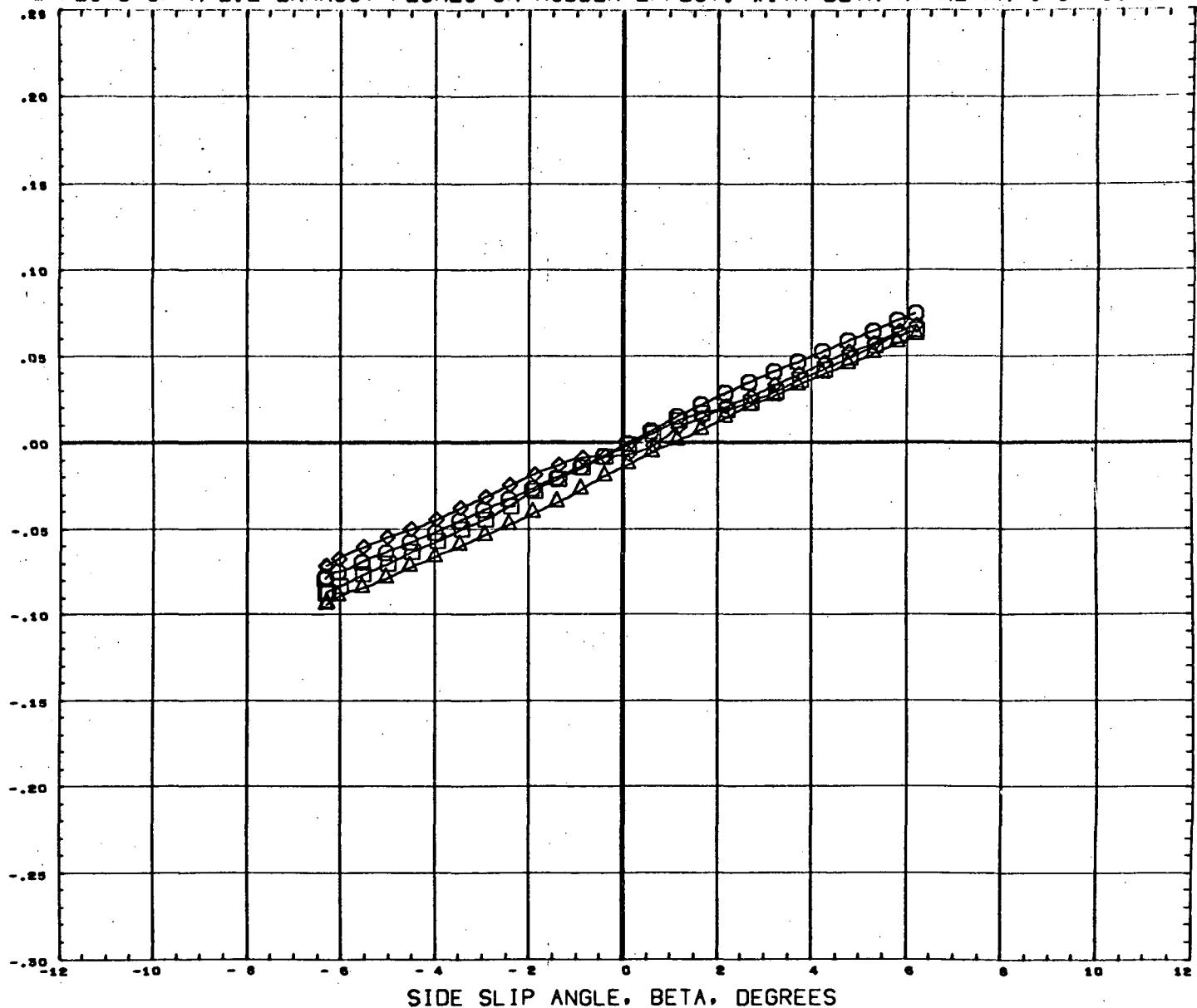
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(RD7549)	MDAC S-222 COMPOSITE (T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7553)	MDAC S-222 COMPOSITE (T-CG) 01T3B6	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(RD7563)	MDAC S-222 COMPOSITE (T-CG) 01T3B6+PLUME (2.2)	0.000	0.000	0.000	0.000	BREF	882.0004 IN.
(RD7567)	MDAC S-222 COMPOSITE (T-CG) 01T3B6+PLUME (2.2)	0.000	0.000	0.000	10.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 2.20

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EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF 01T3B6

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



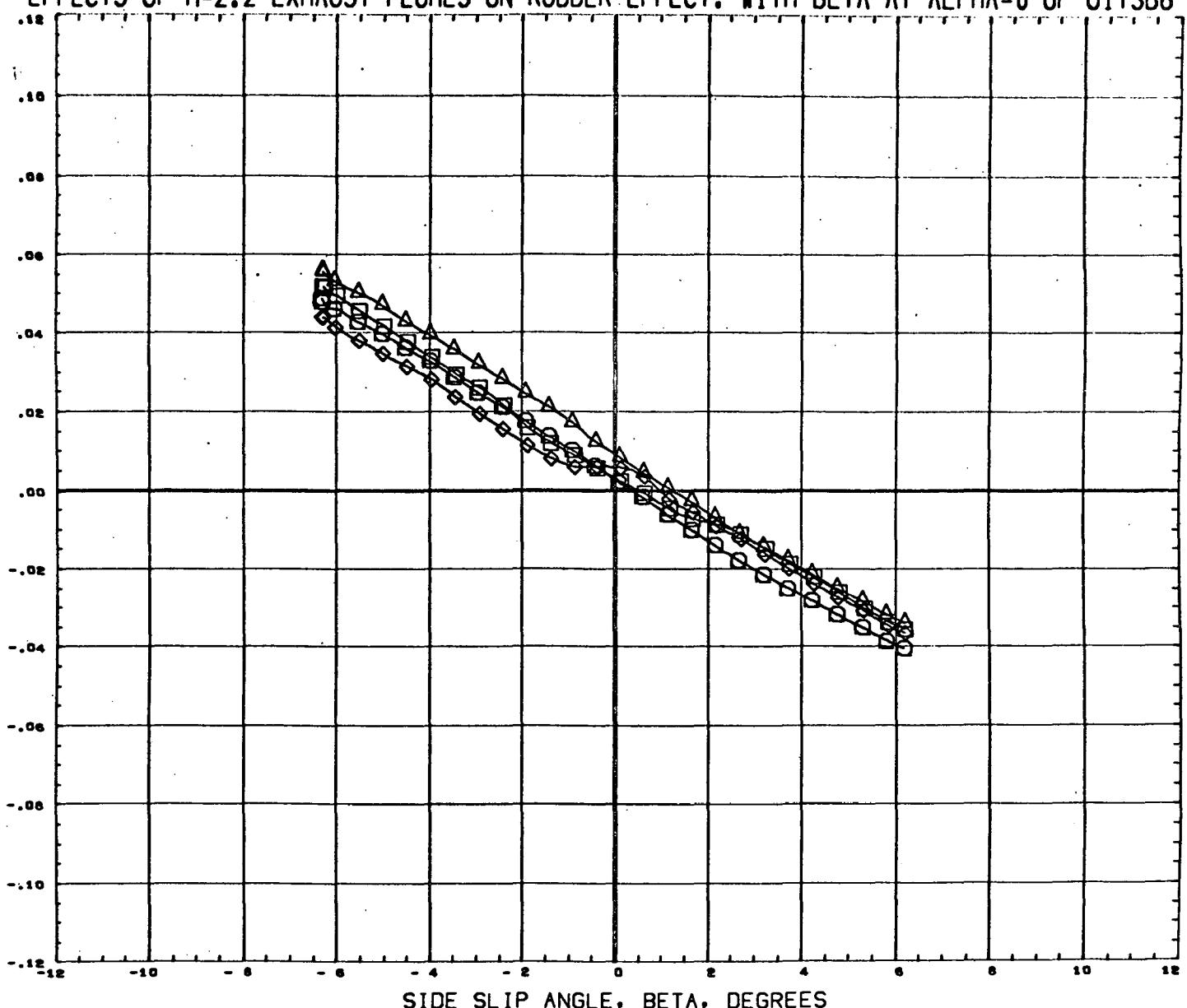
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRRON	RUDDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7553)	MDAC S-222 COMPOSITE(T-CG) 01T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7563)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7567)	MDAC S-222 COMPOSITE(T-CG) 01T3B6+PLUME(2.2)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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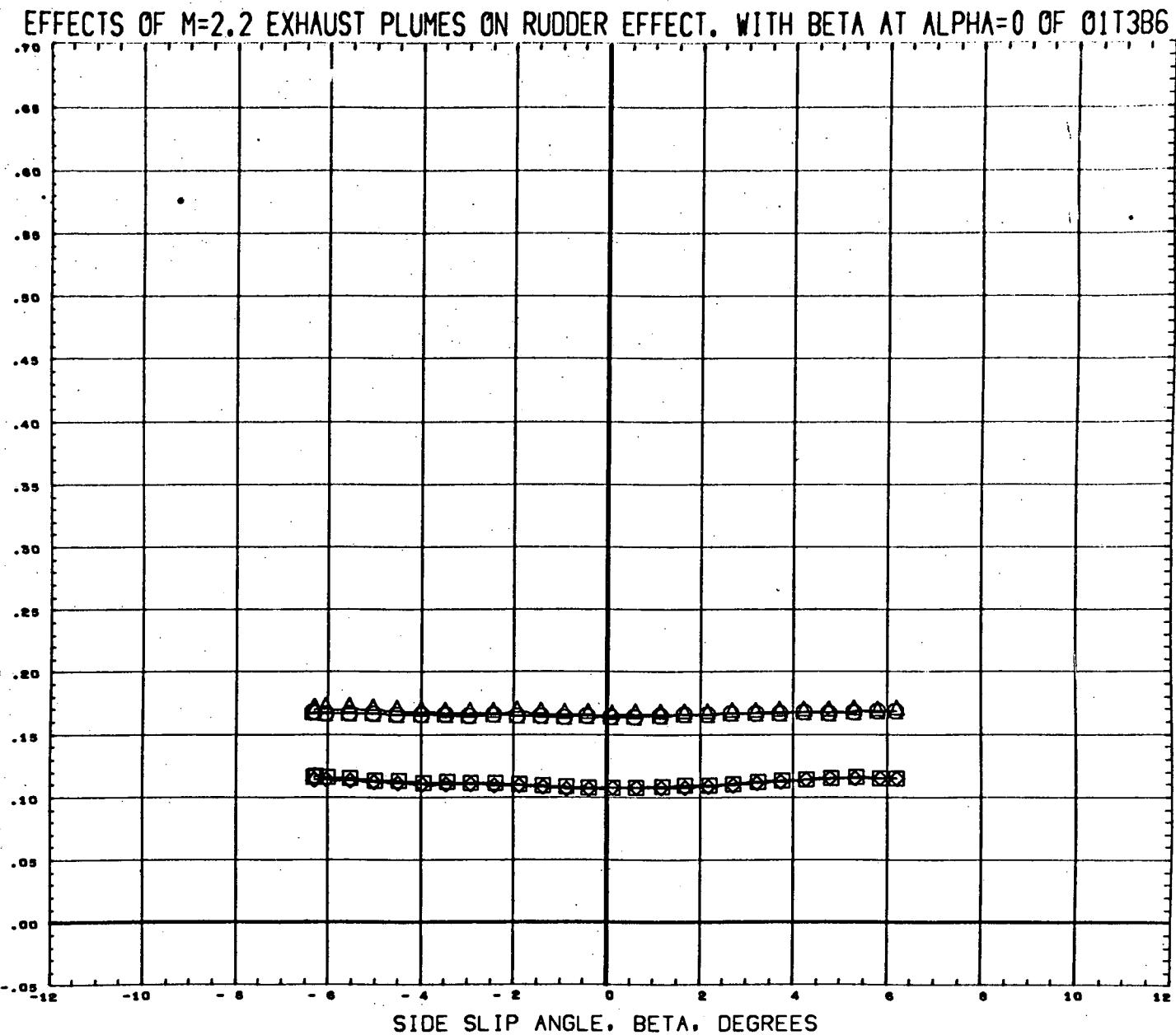
EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH BETA AT ALPHA=0 OF 01T386

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE (T-CG) O1T386	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7553)	MDAC S-222 COMPOSITE (T-CG) O1T386	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7563)	MDAC S-222 COMPOSITE (T-CG) O1T386+PLUME (2.2)	0.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7567)	MDAC S-222 COMPOSITE (T-CG) O1T386+PLUME (2.2)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

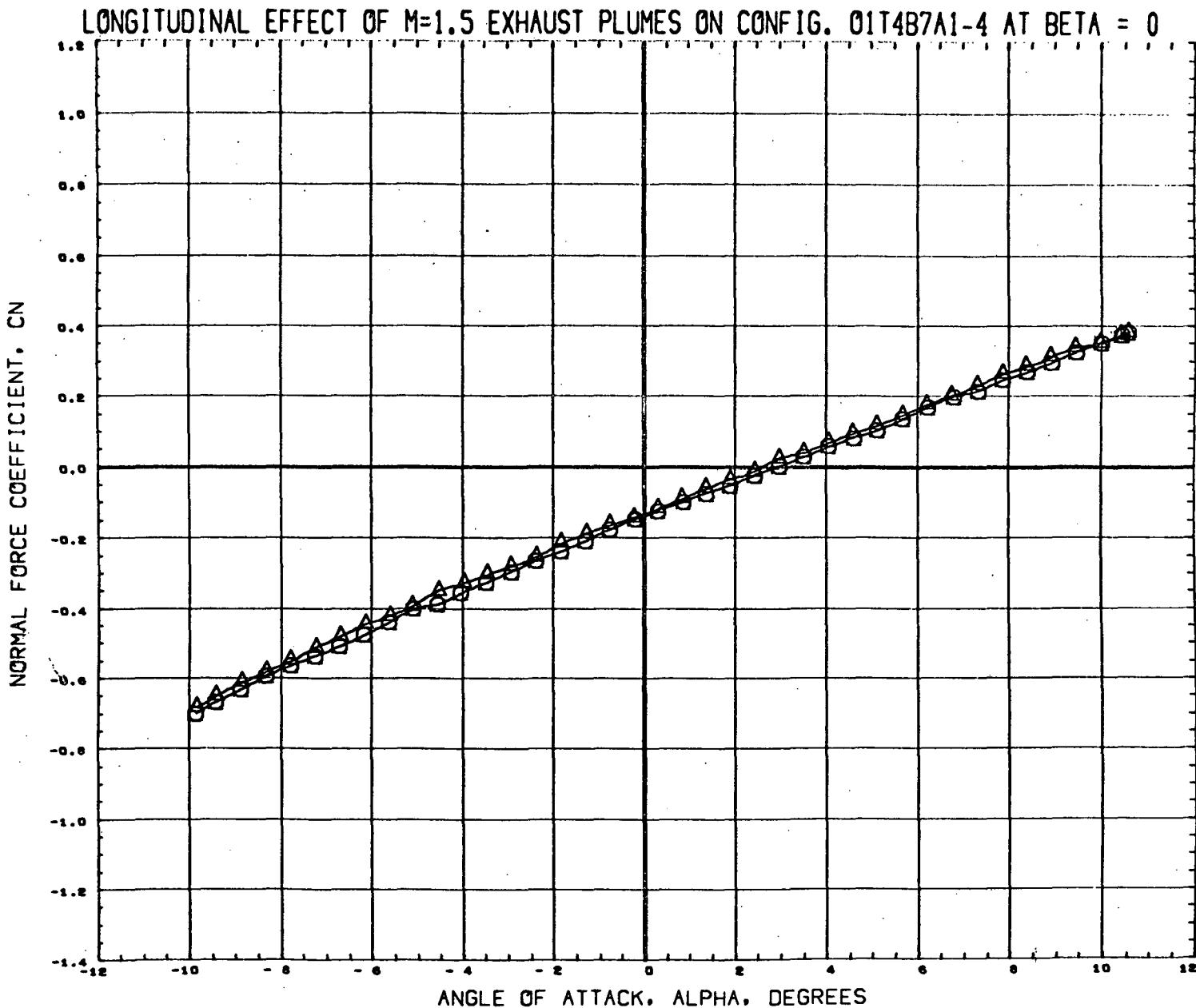
FOREBODY AXIAL FORCE COEFFICIENT, CAF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7549)	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7553)	MDAC S-222 COMPOSITE (T-CG) O1T3B6	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7563)	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (2.2)	0.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7567)	MDAC S-222 COMPOSITE (T-CG) O1T3B6+PLUME (2.2)	0.000	0.000	0.000	10.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

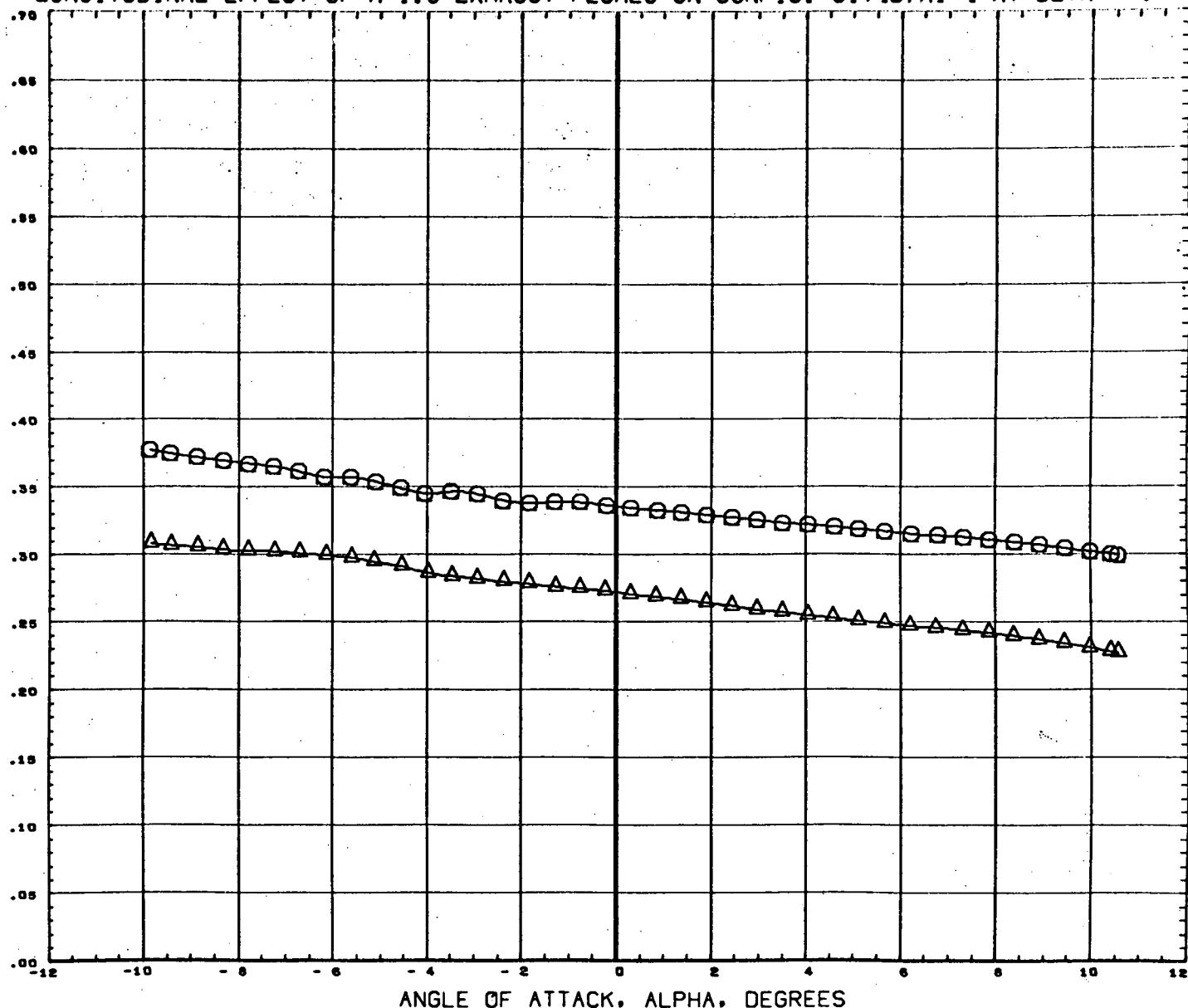
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC 8-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7574)	MDAC 8-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 662.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0024 IN.
						SCALE 0.0060

LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T4B7A1-4 AT BETA = 0

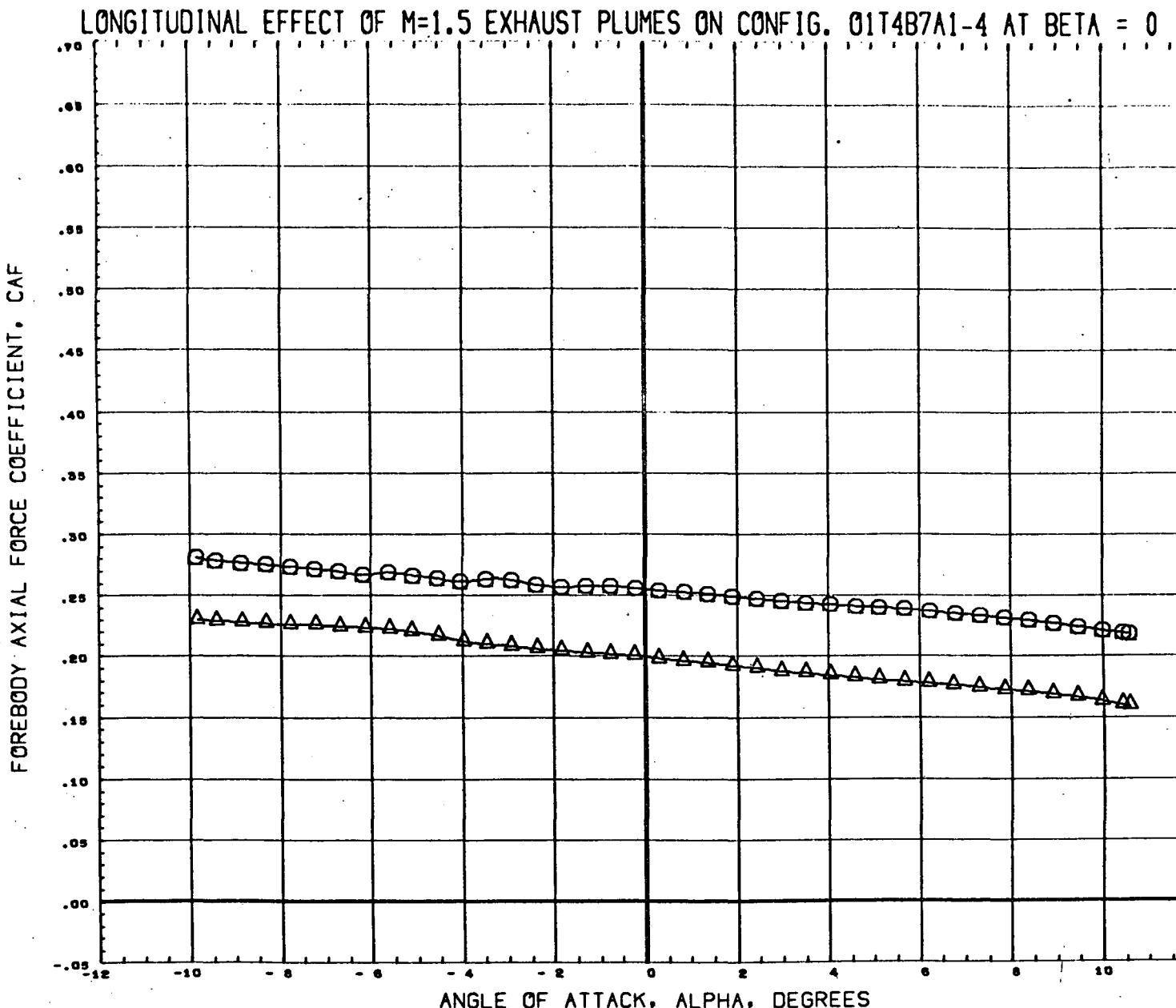
AXIAL FORCE COEFFICIENT, CA



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7572)	○	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7574)	△	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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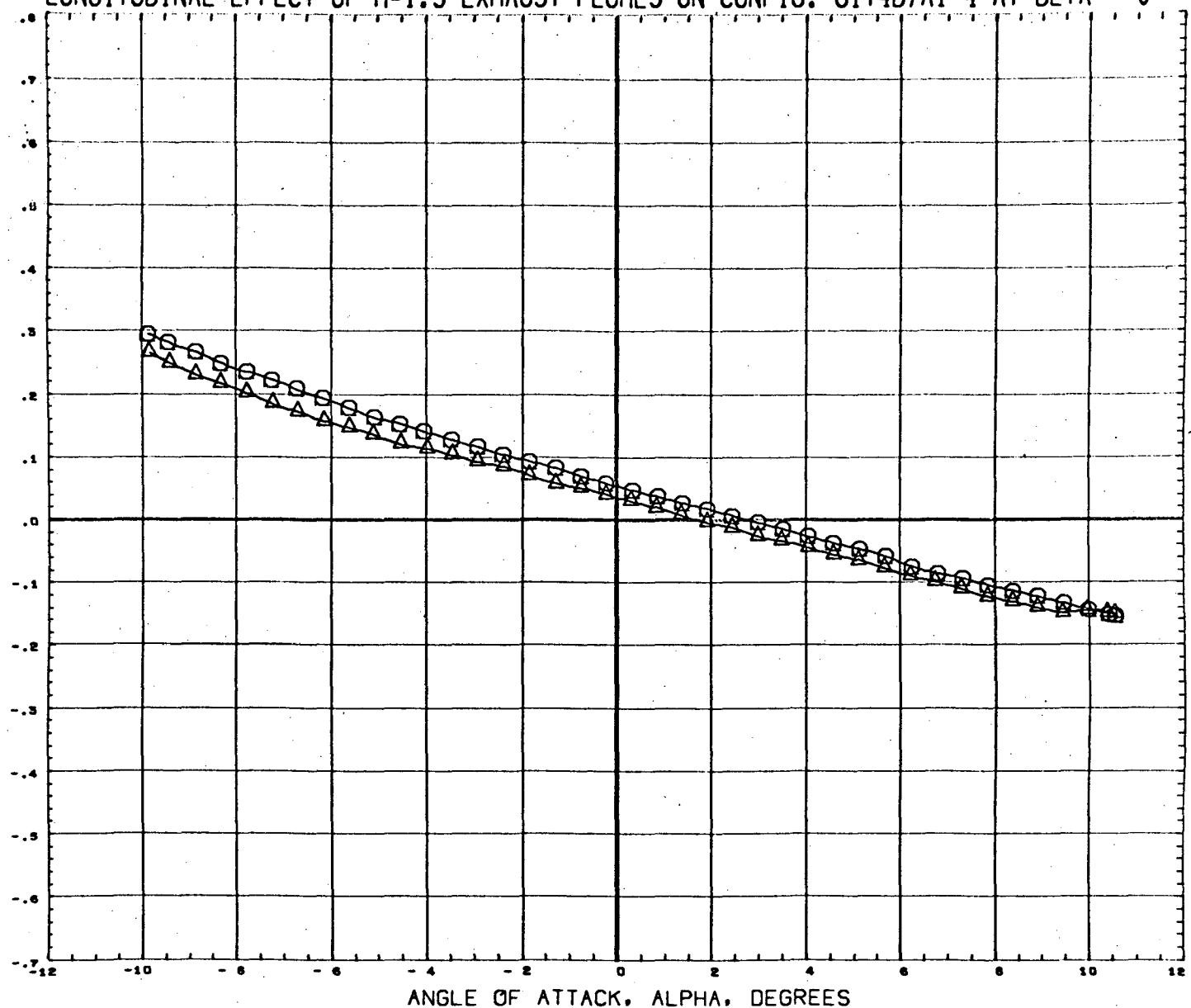
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 682.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

MACH 1.51

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T4B7A1-4 AT BETA = 0

PITCHING MOMENT COEFFICIENT, CLM



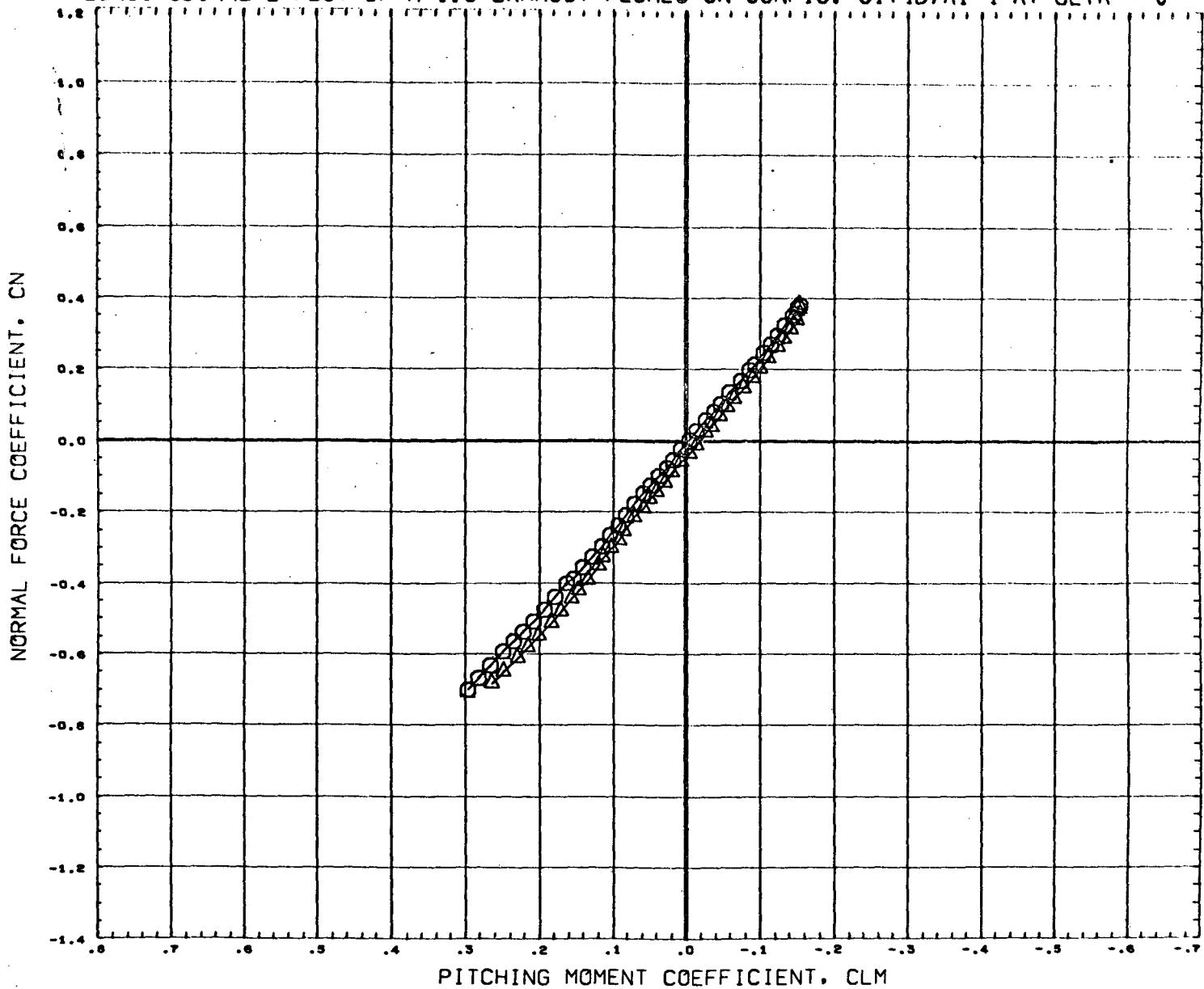
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CDT572)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CDT574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T4B7A1-4 AT BETA = 0

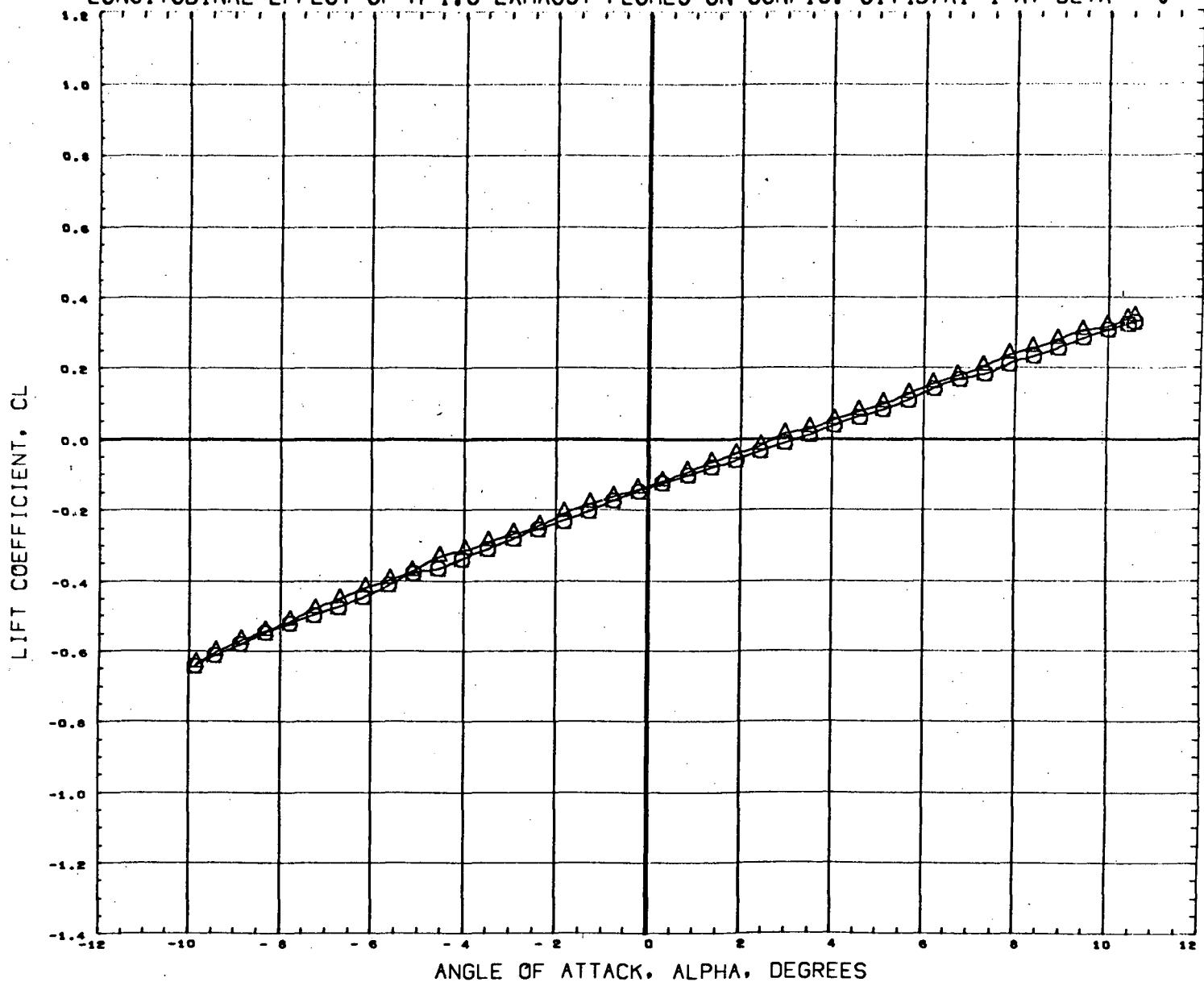


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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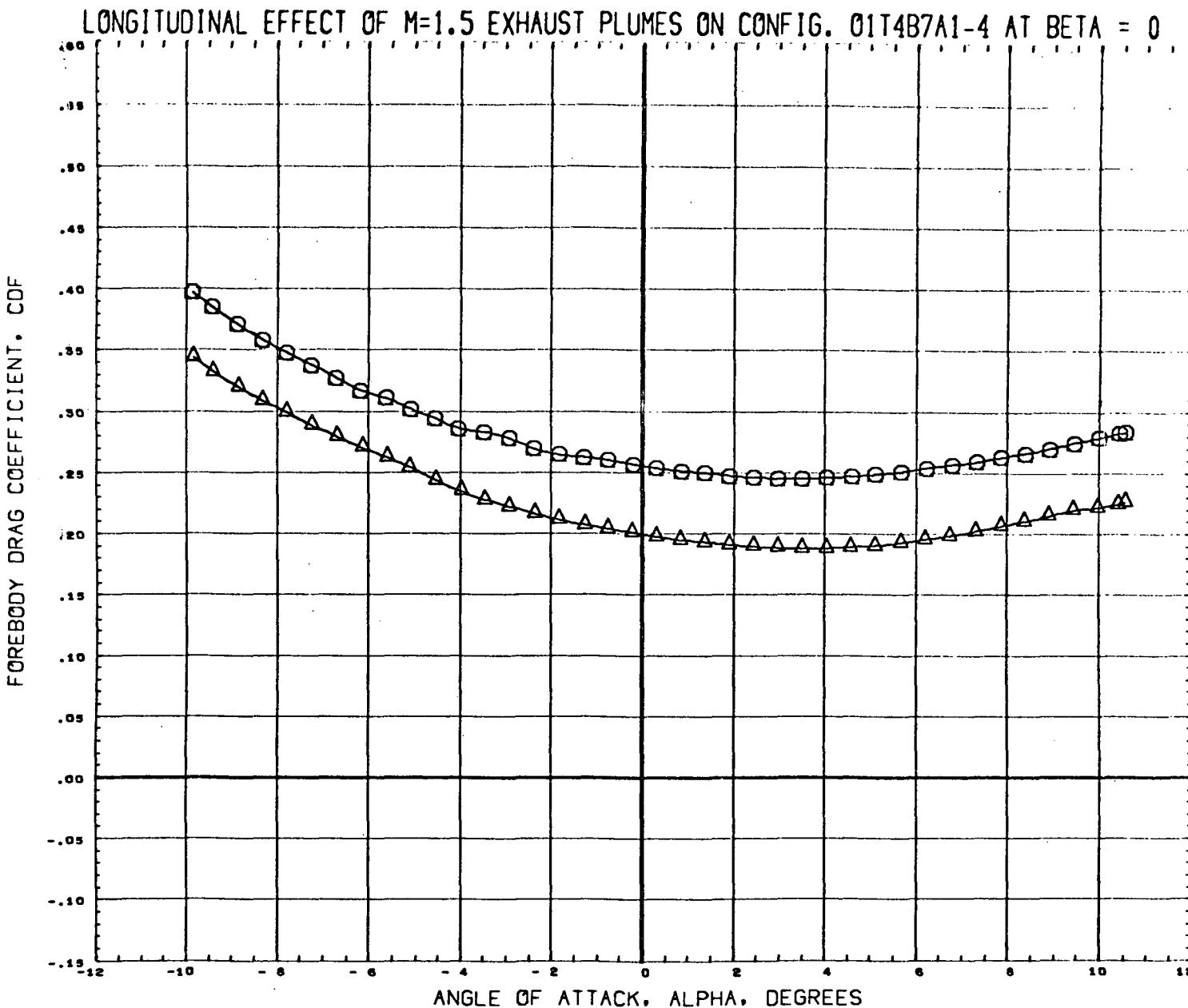
LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7574)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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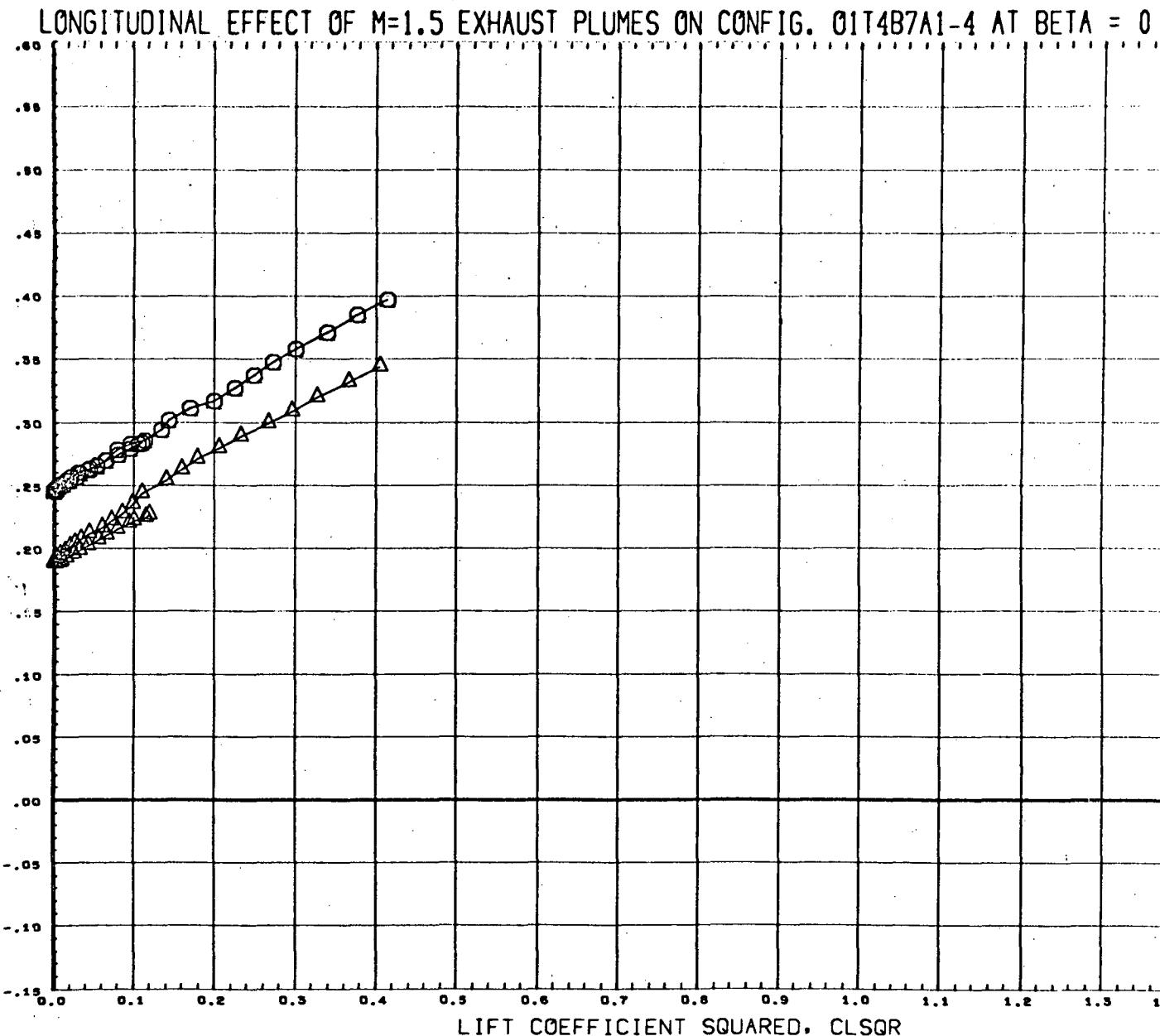


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE (T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT. LREF 609.5004 IN.
(CD7574)	MDAC S-222 COMPOSITE (T-CG) O1T4B7A1-4+PLUME (1.5)	0.000	0.000	0.000	0.000	BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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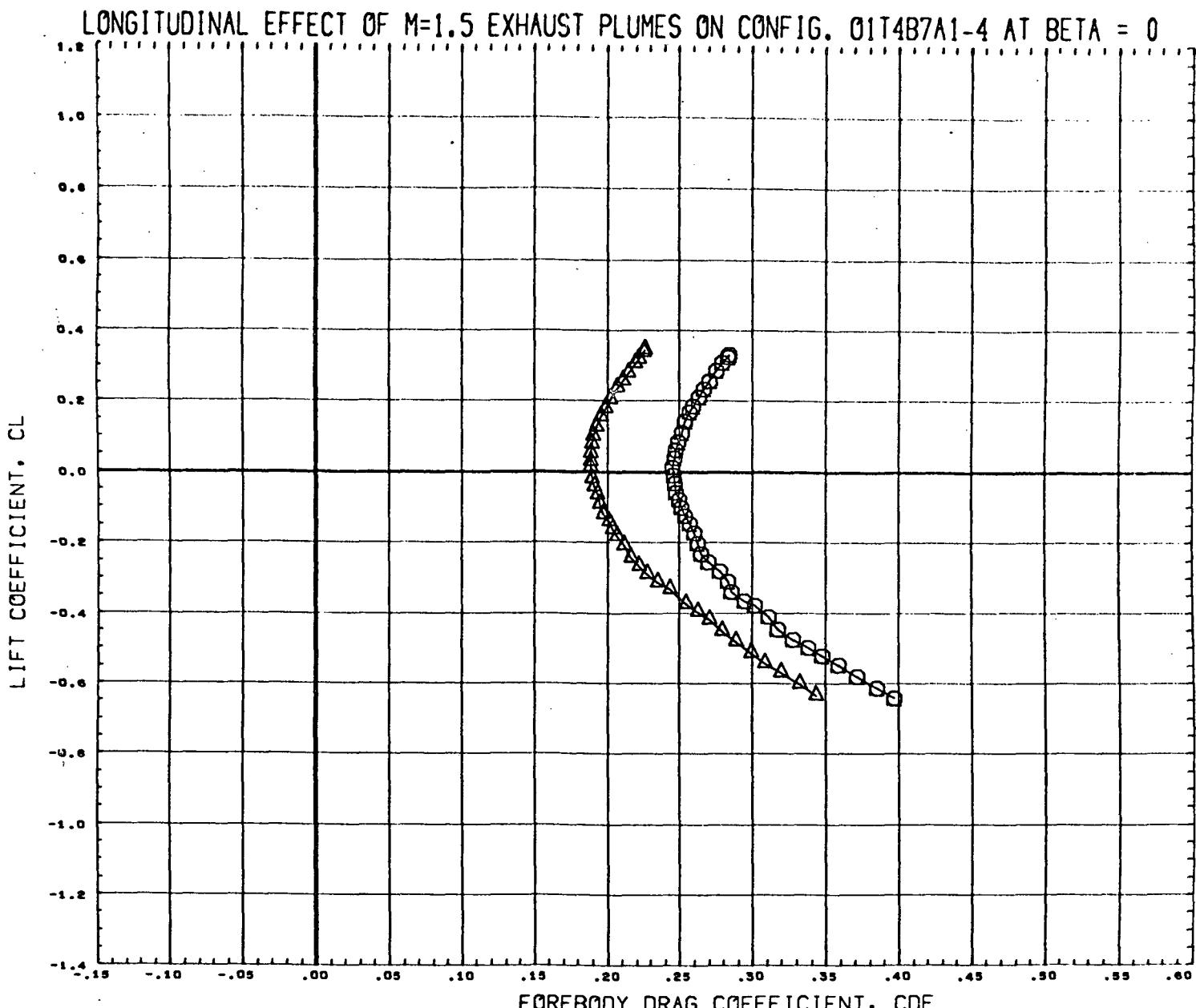
FOREBODY DRAG COEFFICIENT. CDF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION		
						SREF	3155.3040	SQ.FT.
(CD7572)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
(CD7574)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	BREF	882.0004	IN.
						XMRP	557.0004	IN.
						YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

MACH 1.51

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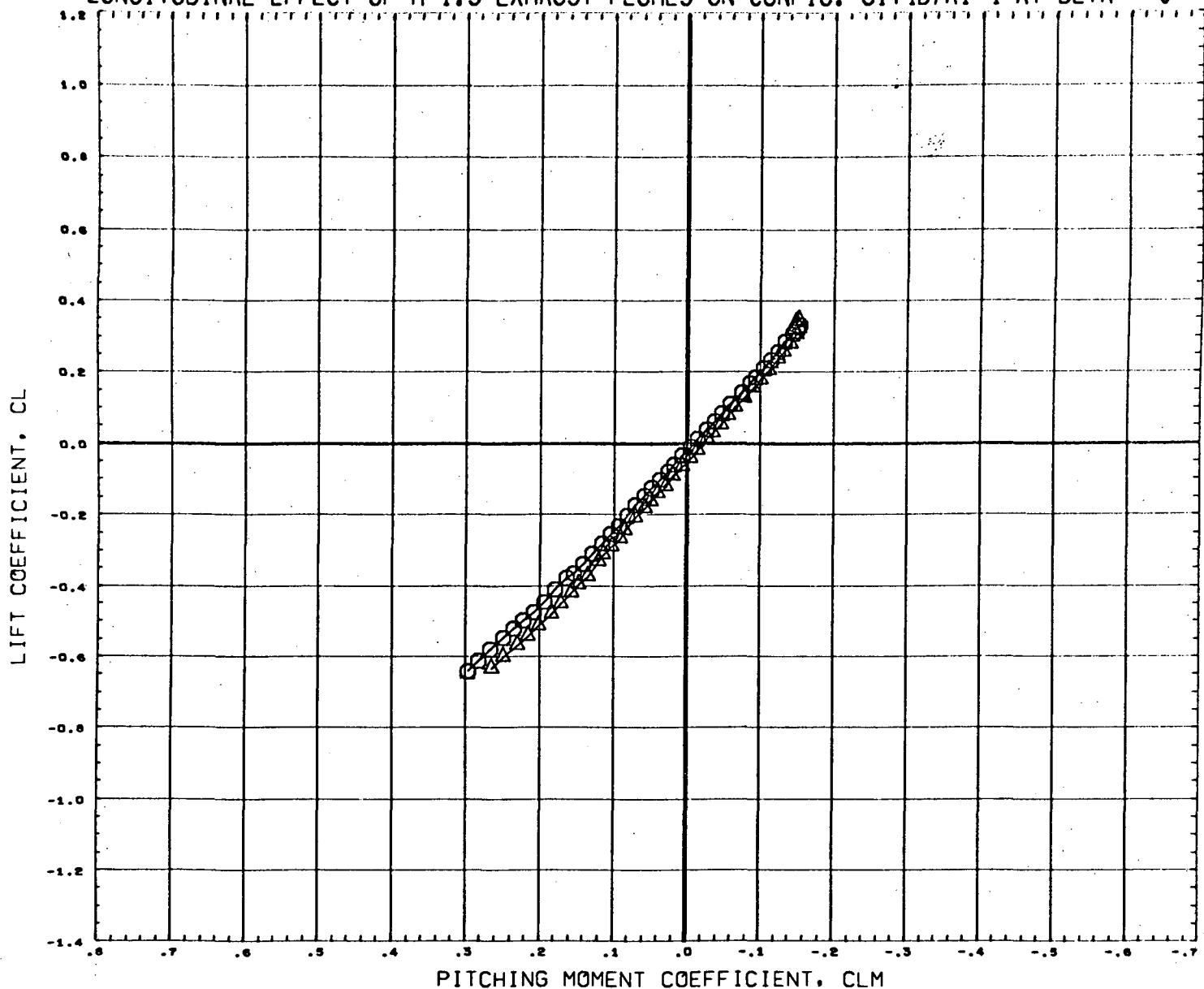


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 882.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

MACH 1.51

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LONGITUDINAL EFFECT OF M=1.5 EXHAUST PLUMES ON CONFIG. O1T4B7A1-4 AT BETA = 0

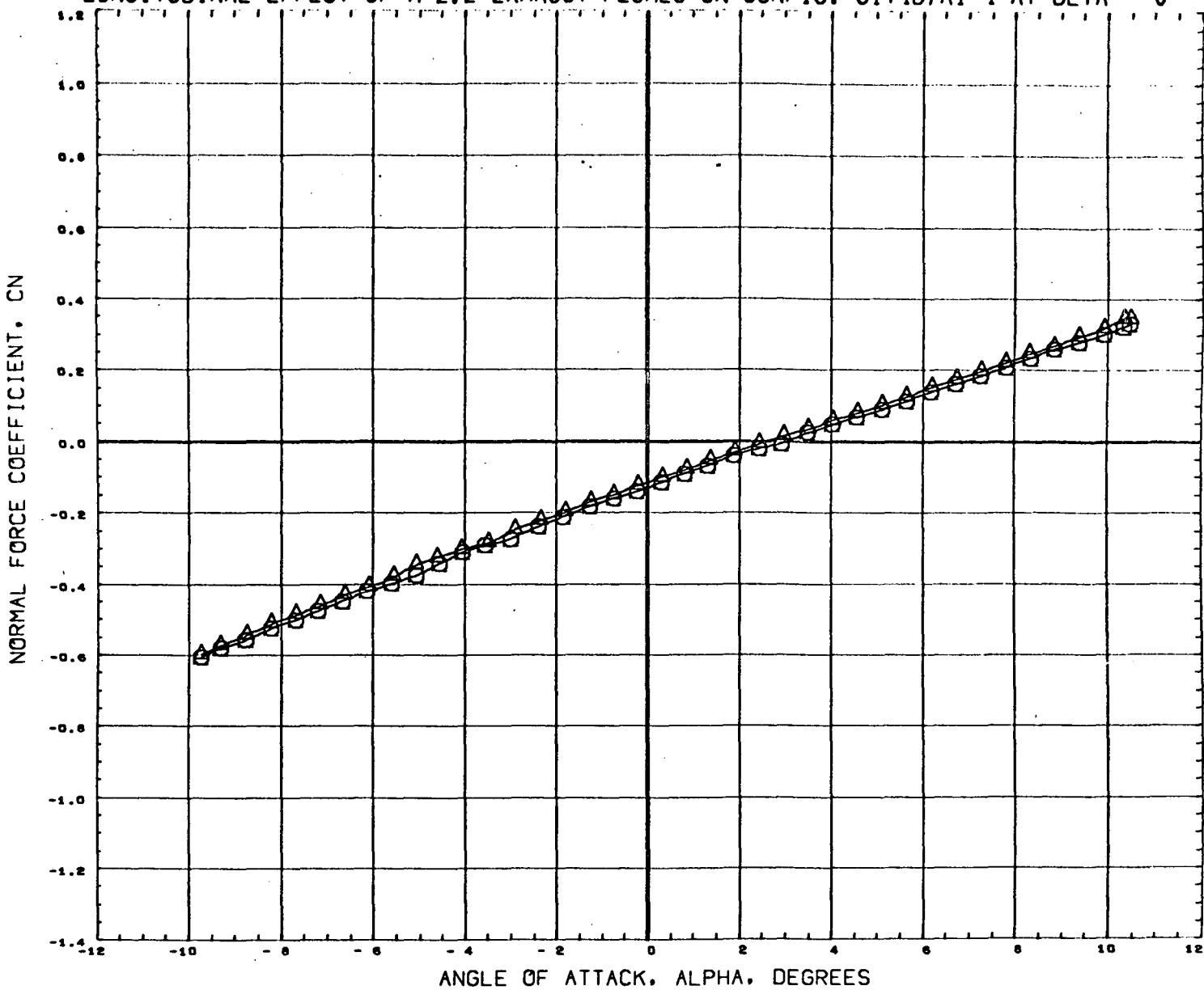


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CDT572)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CDT574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 682.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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LONGITUDINAL EFFECT OF M=2.2 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT BETA = 0



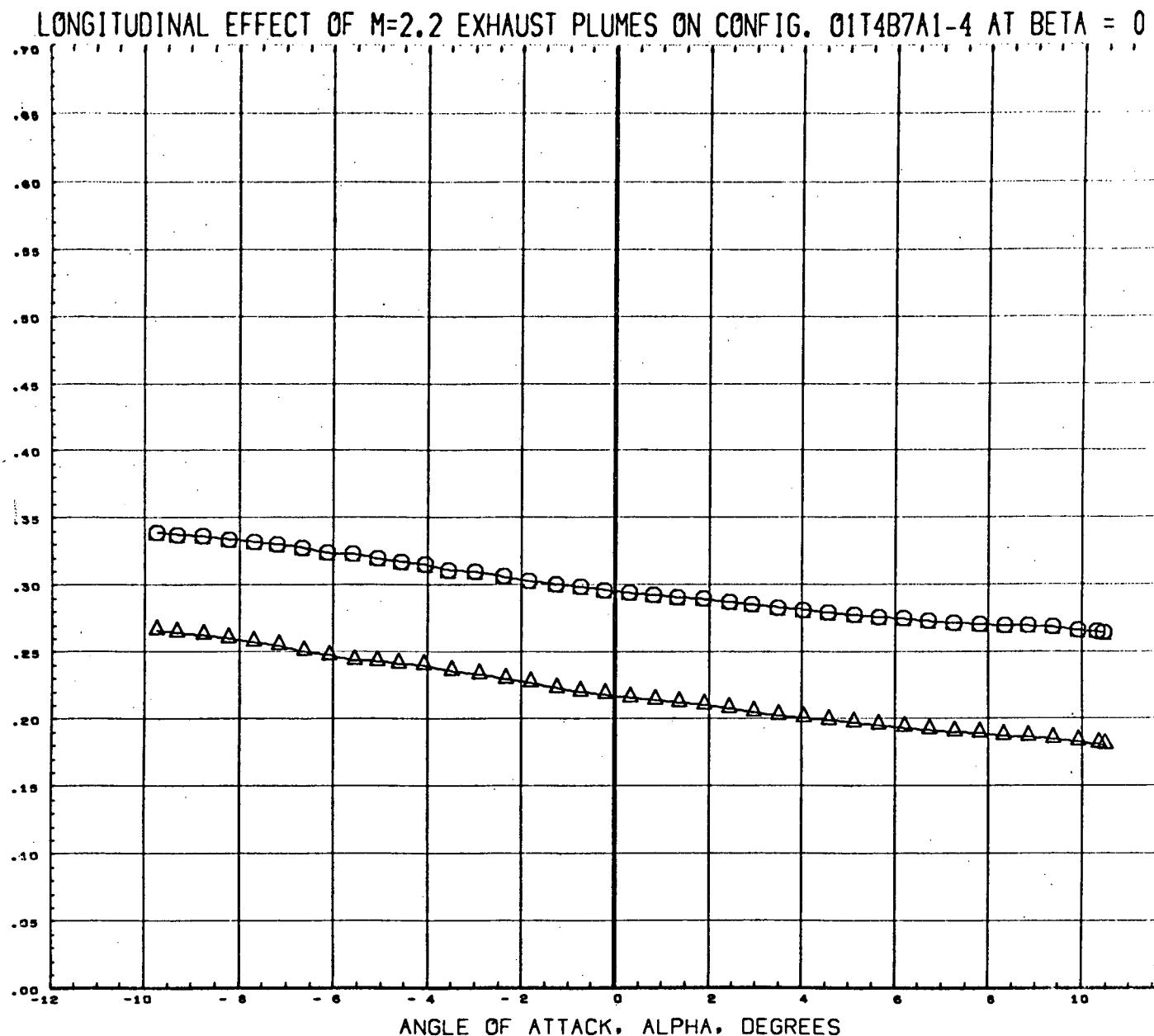
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7580)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH

2.20

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AXIAL FORCE COEFFICIENT, CA

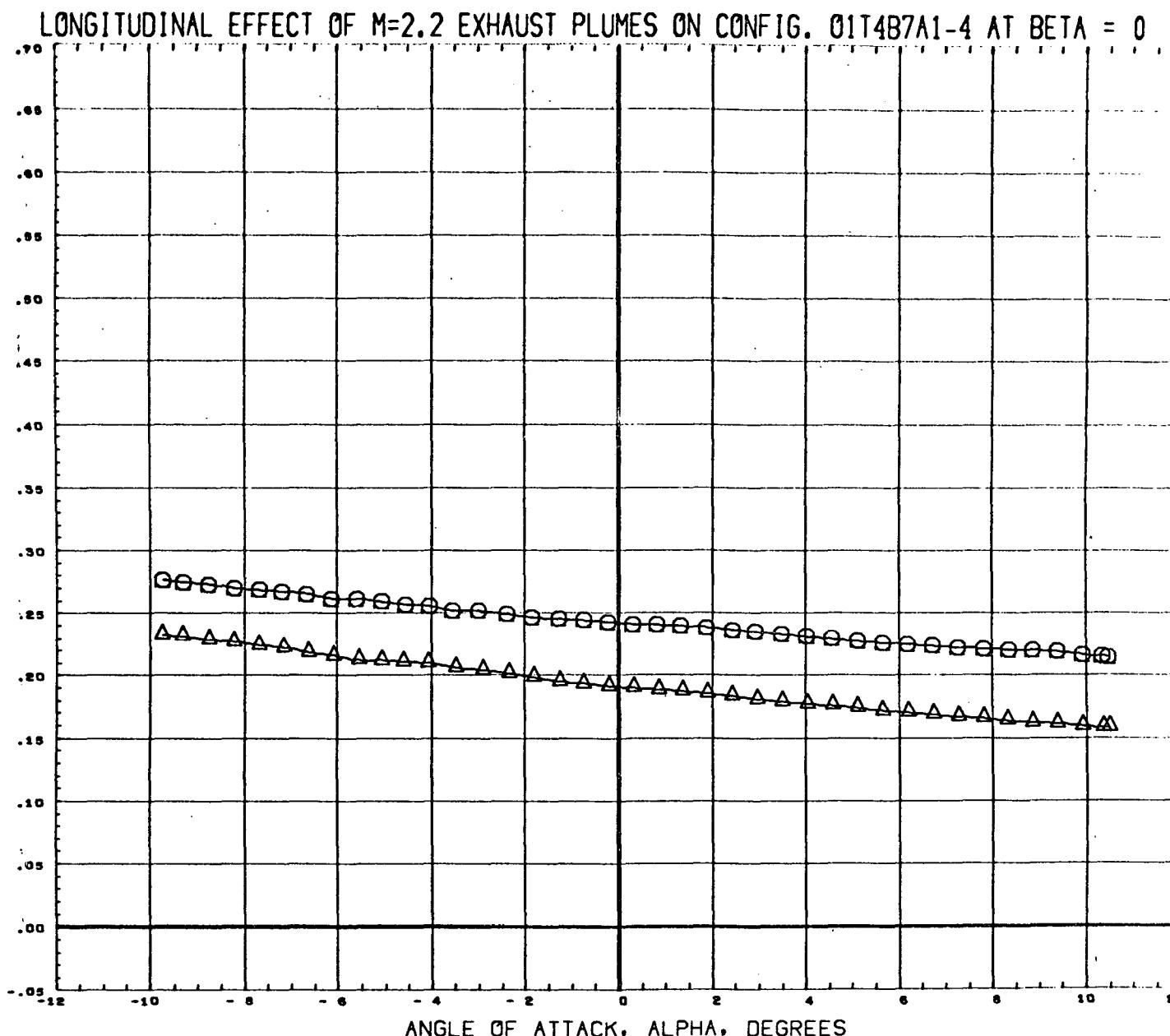


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7572)	○	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7580)	△	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

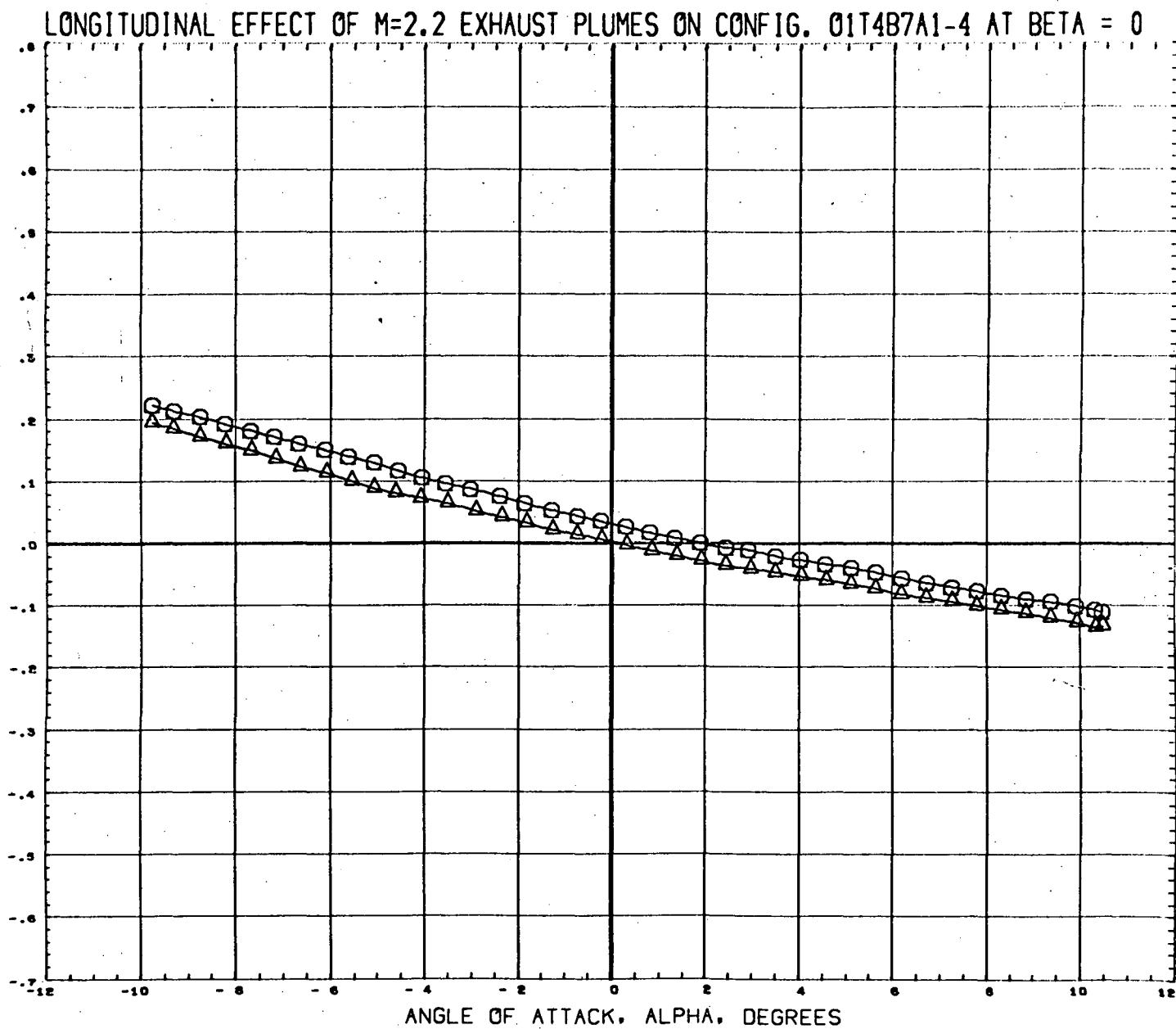
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FOREBODY AXIAL FORCE COEFFICIENT • CAF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7580)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 957.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

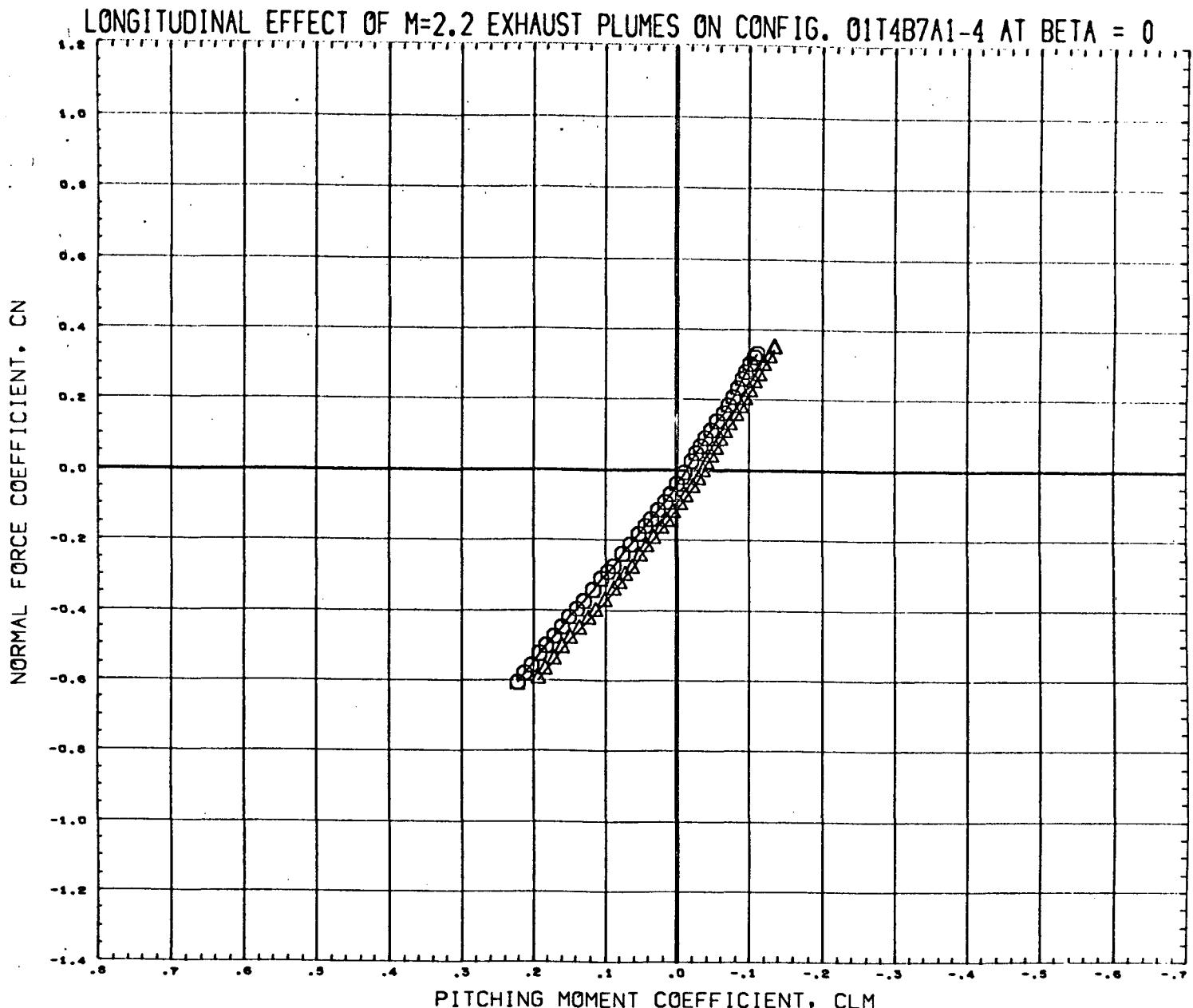
PITCHING MOMENT COEFFICIENT, CLM



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7560)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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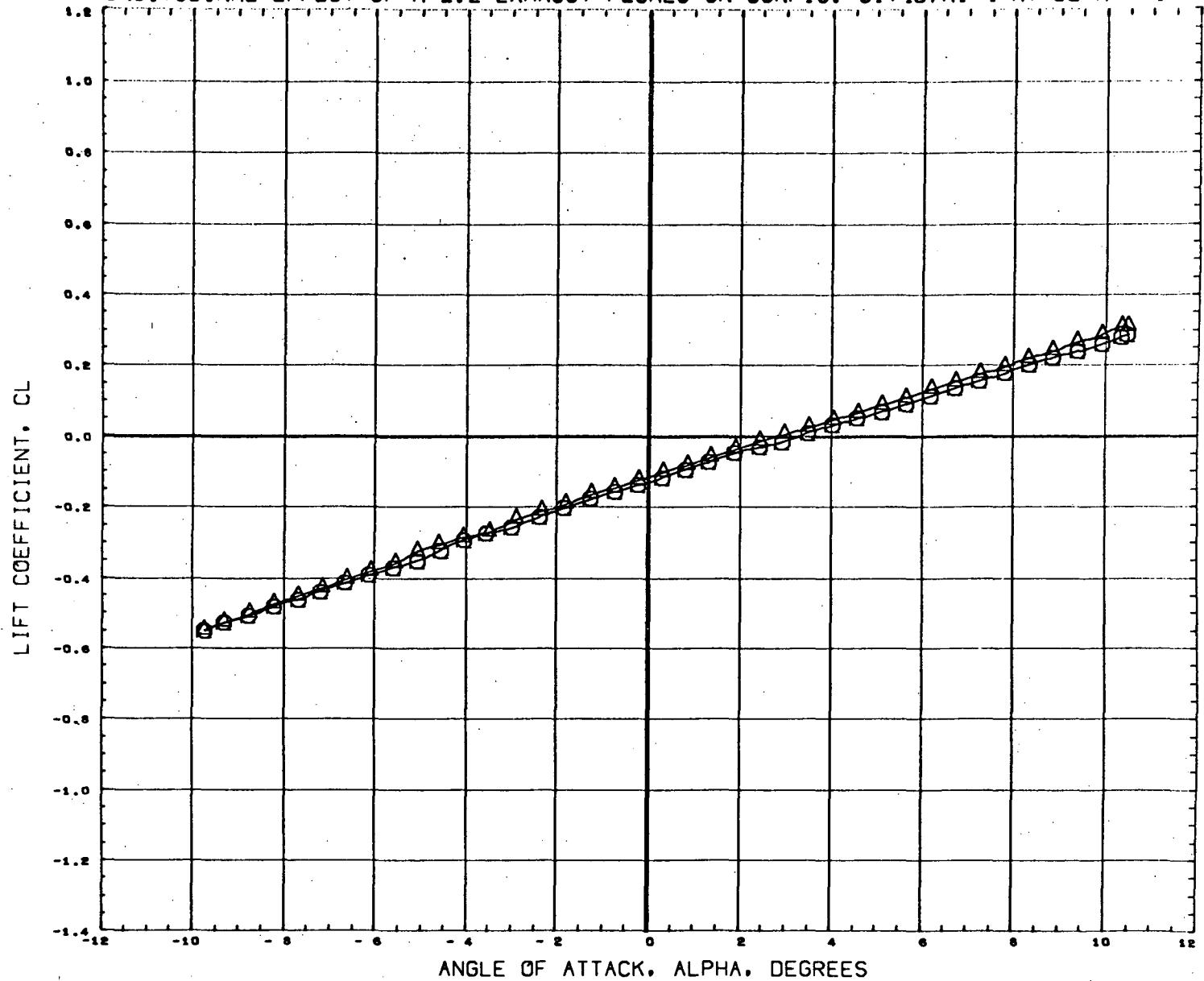


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7580)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH 2.20

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LONGITUDINAL EFFECT OF M=2.2 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT BETA = 0

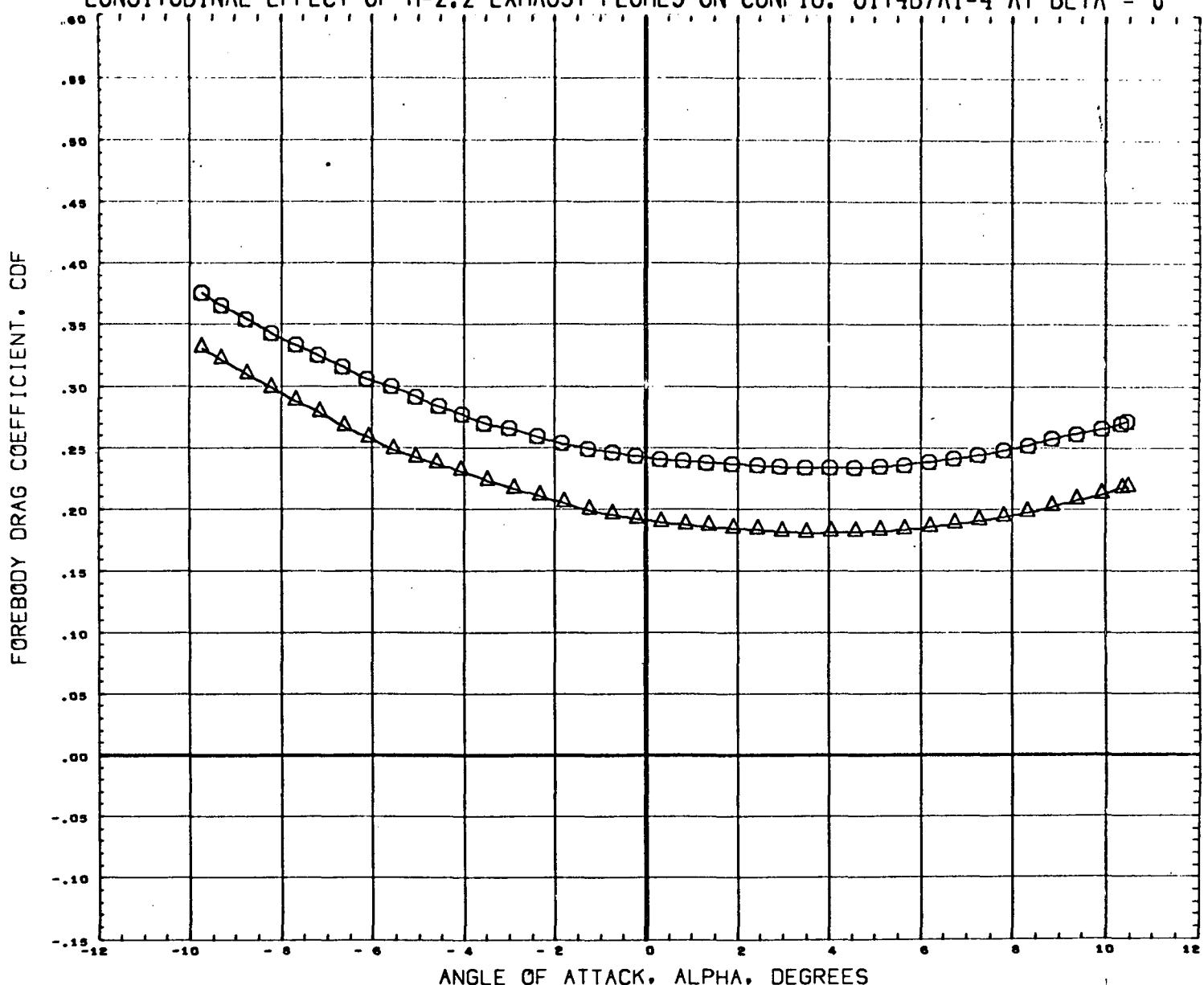


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7580)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 862.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=2.2 EXHAUST PLUMES ON CONFIG. O1T4B7A1-4 AT BETA = 0



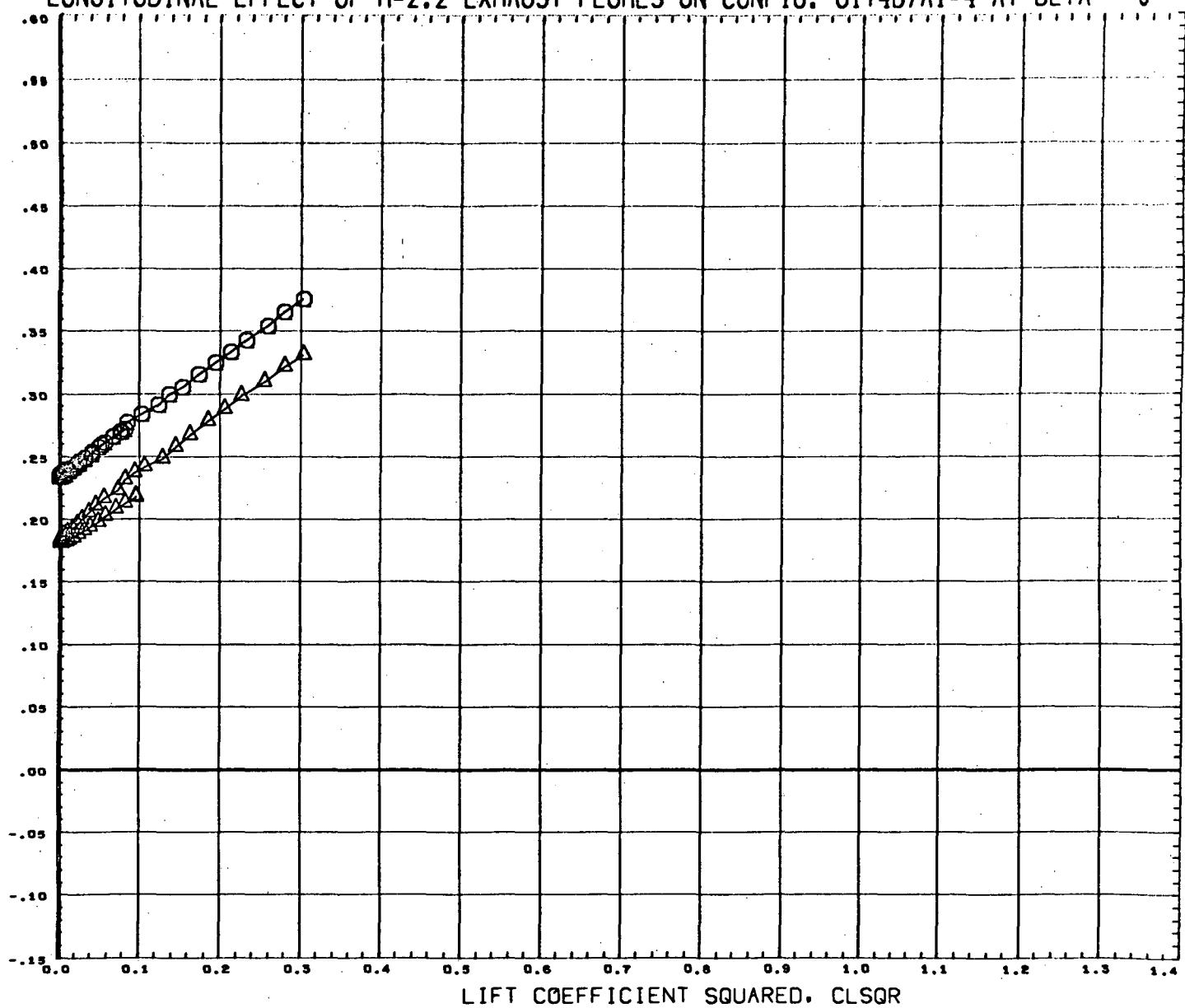
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7580)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=2.2 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT BETA = 0

FOREBODY DRAG COEFFICIENT, CDF



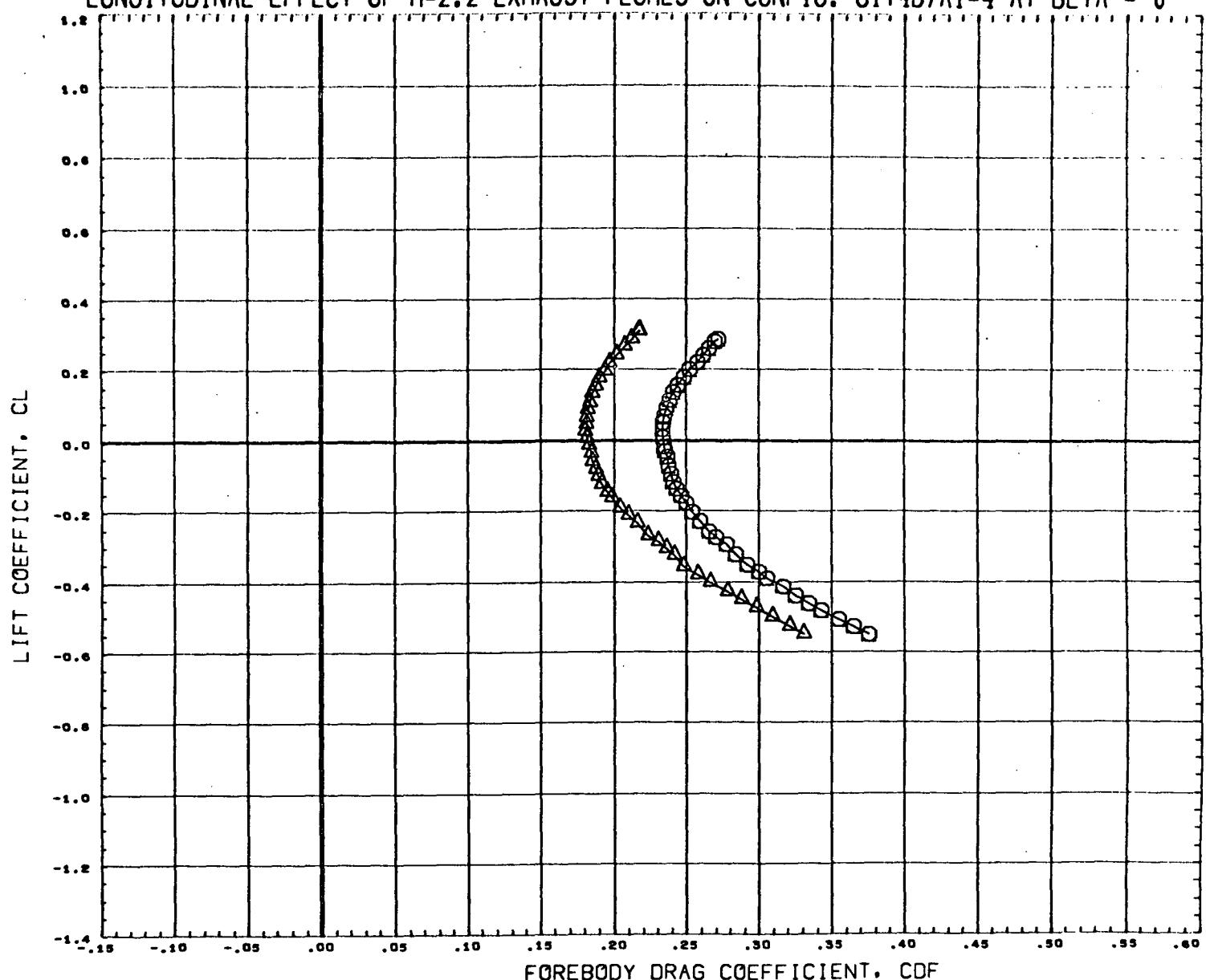
LIFT COEFFICIENT SQUARED, CL²

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION	
(CD7572)	Q	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7580)	A	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
							BREF	882.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=2.2 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT BETA = 0

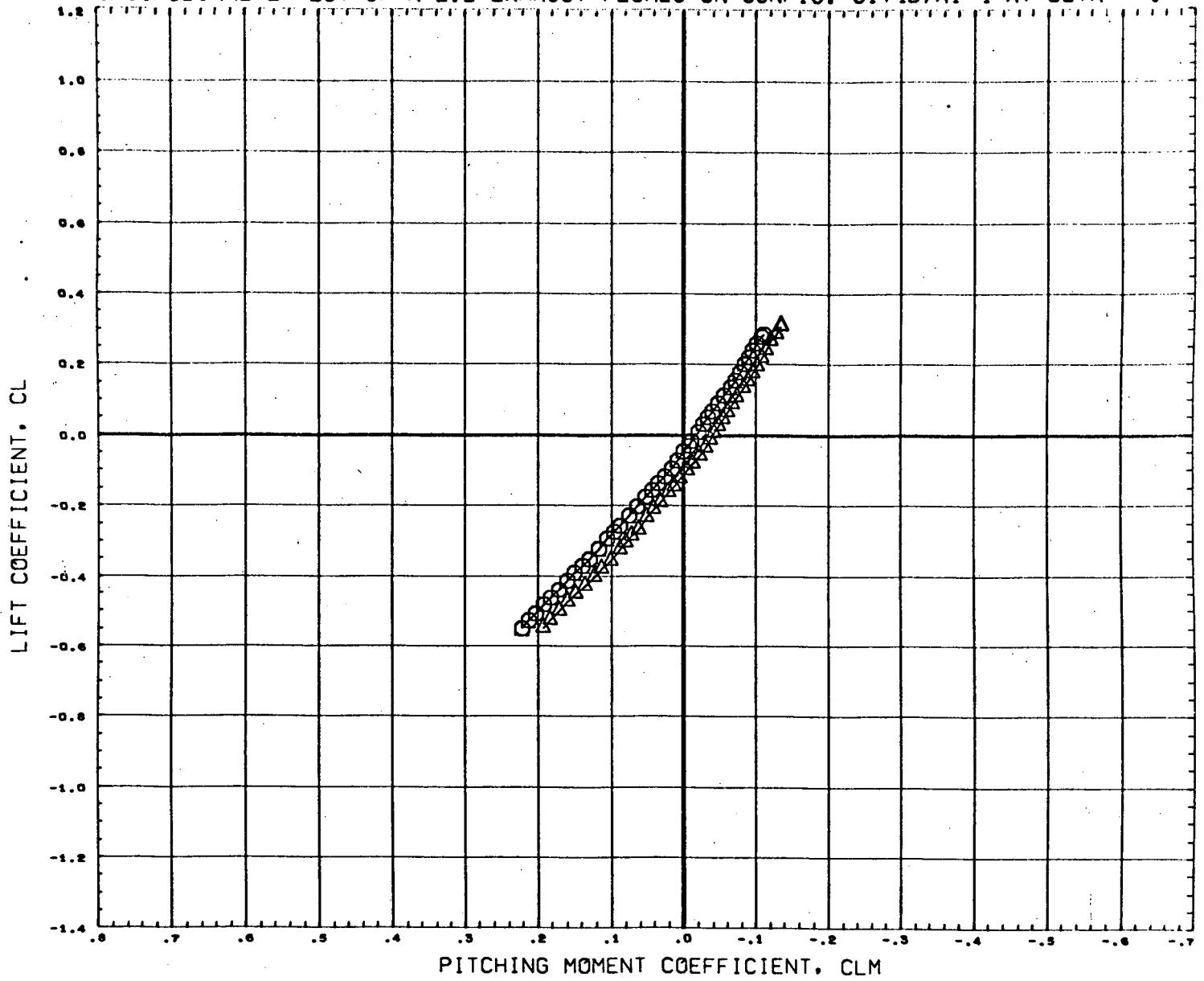


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7572)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT. LREF 609.5004 IN.
(CD7580)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONGITUDINAL EFFECT OF M=2.2 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT BETA = 0

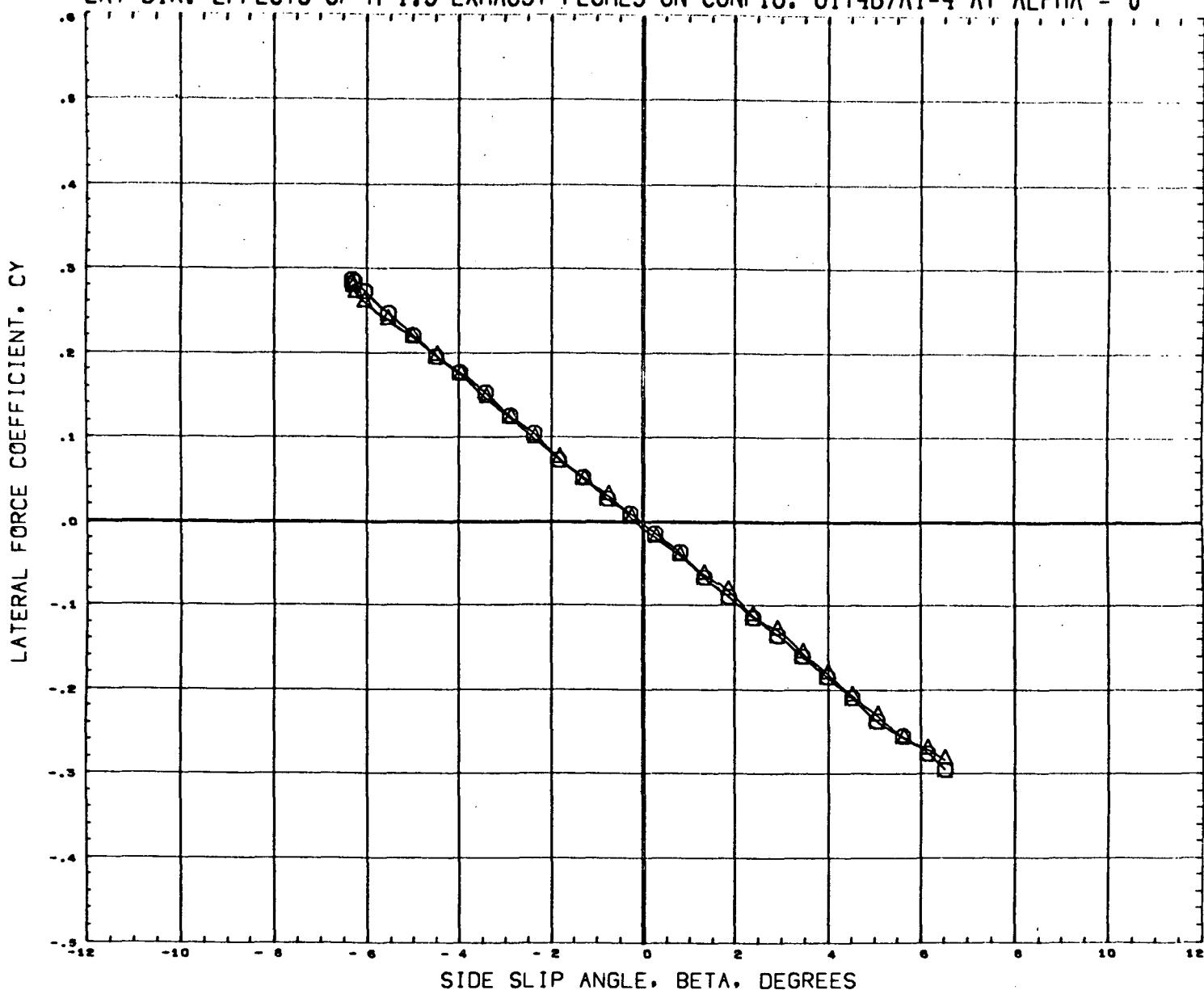


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7572)	□	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7580)	△	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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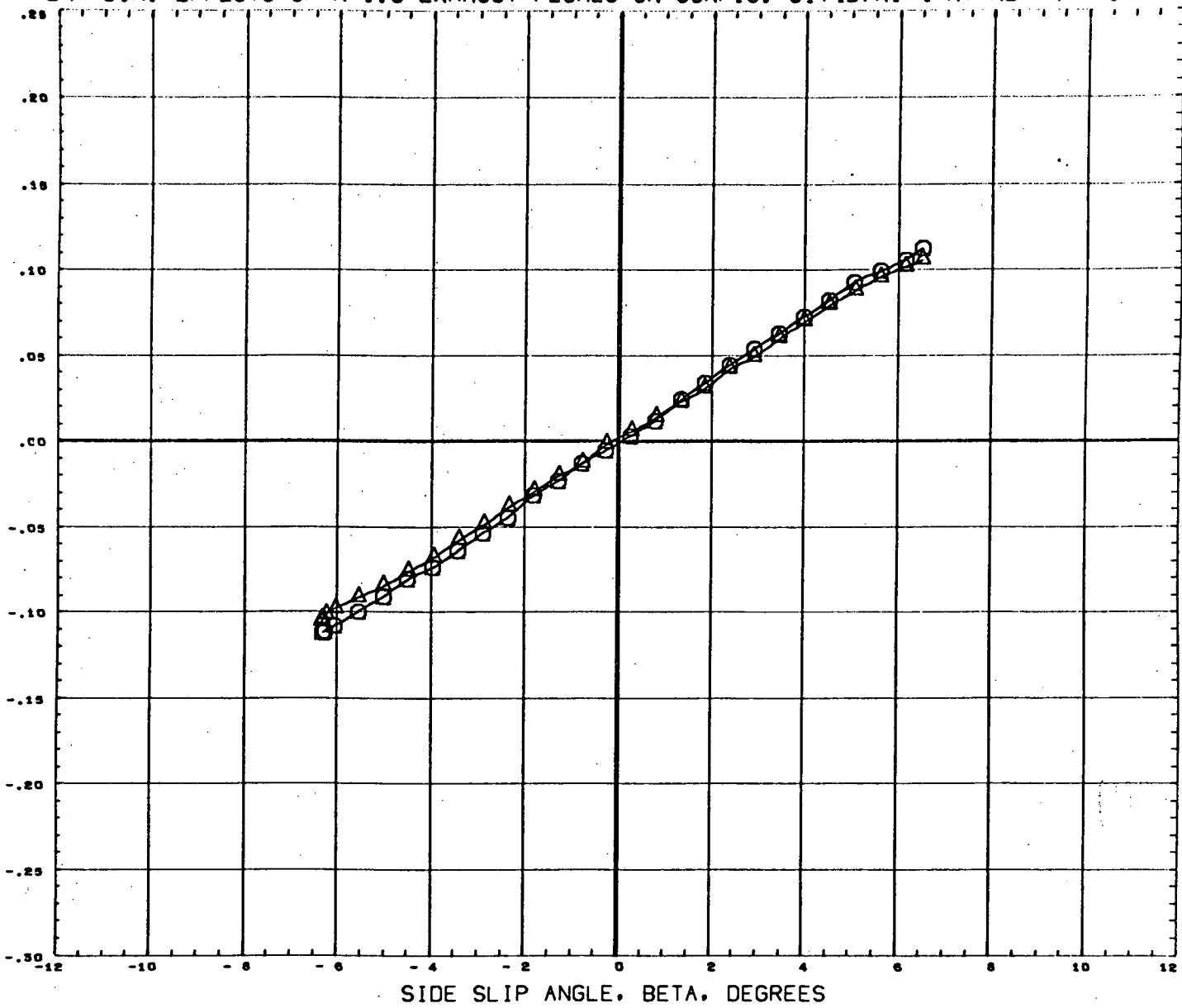
LAT-DIR. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7573)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7575)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 682.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

LAT-DIR. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT ALPHA = 0

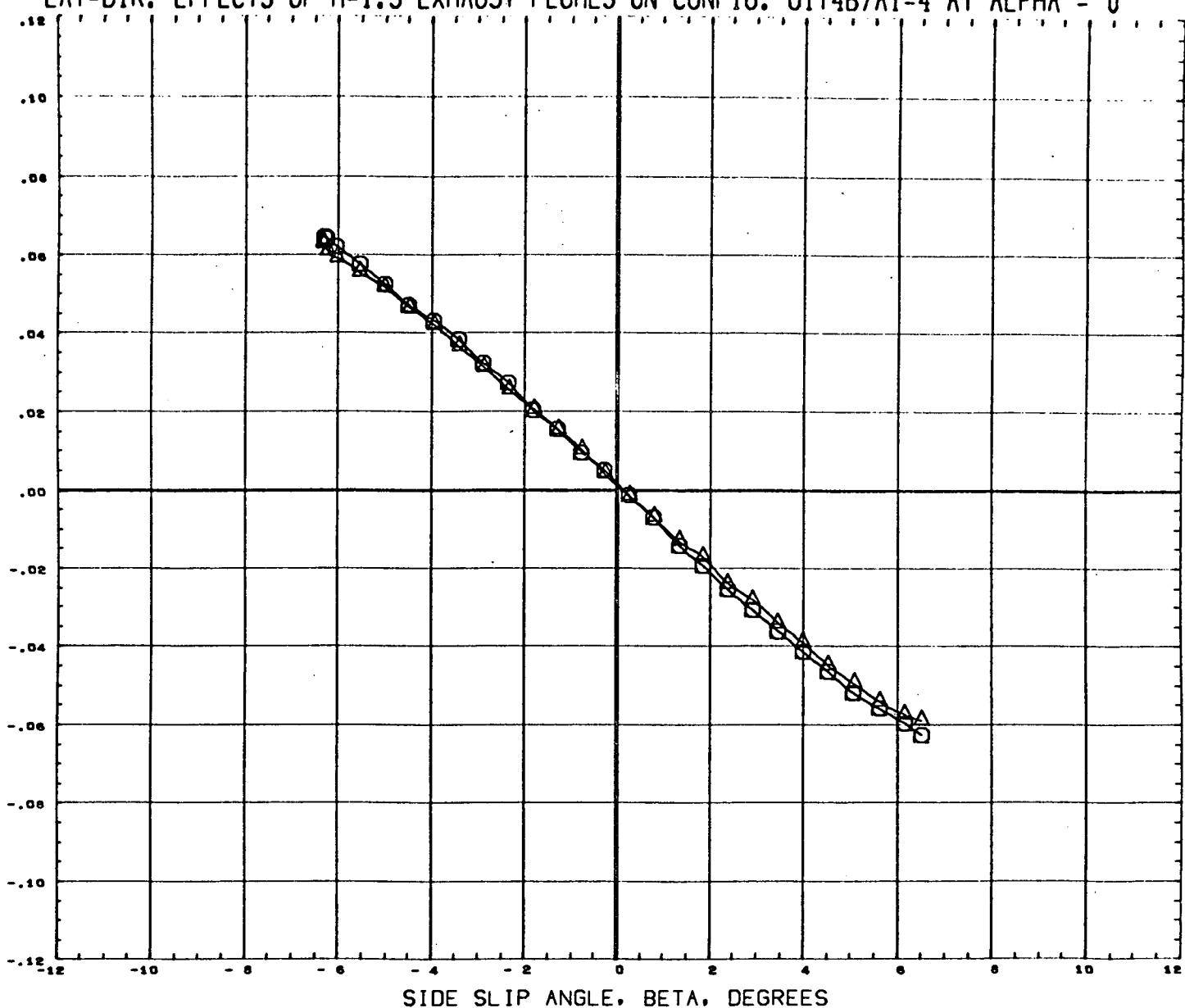


MACH 1.51

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LAT-DIR. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



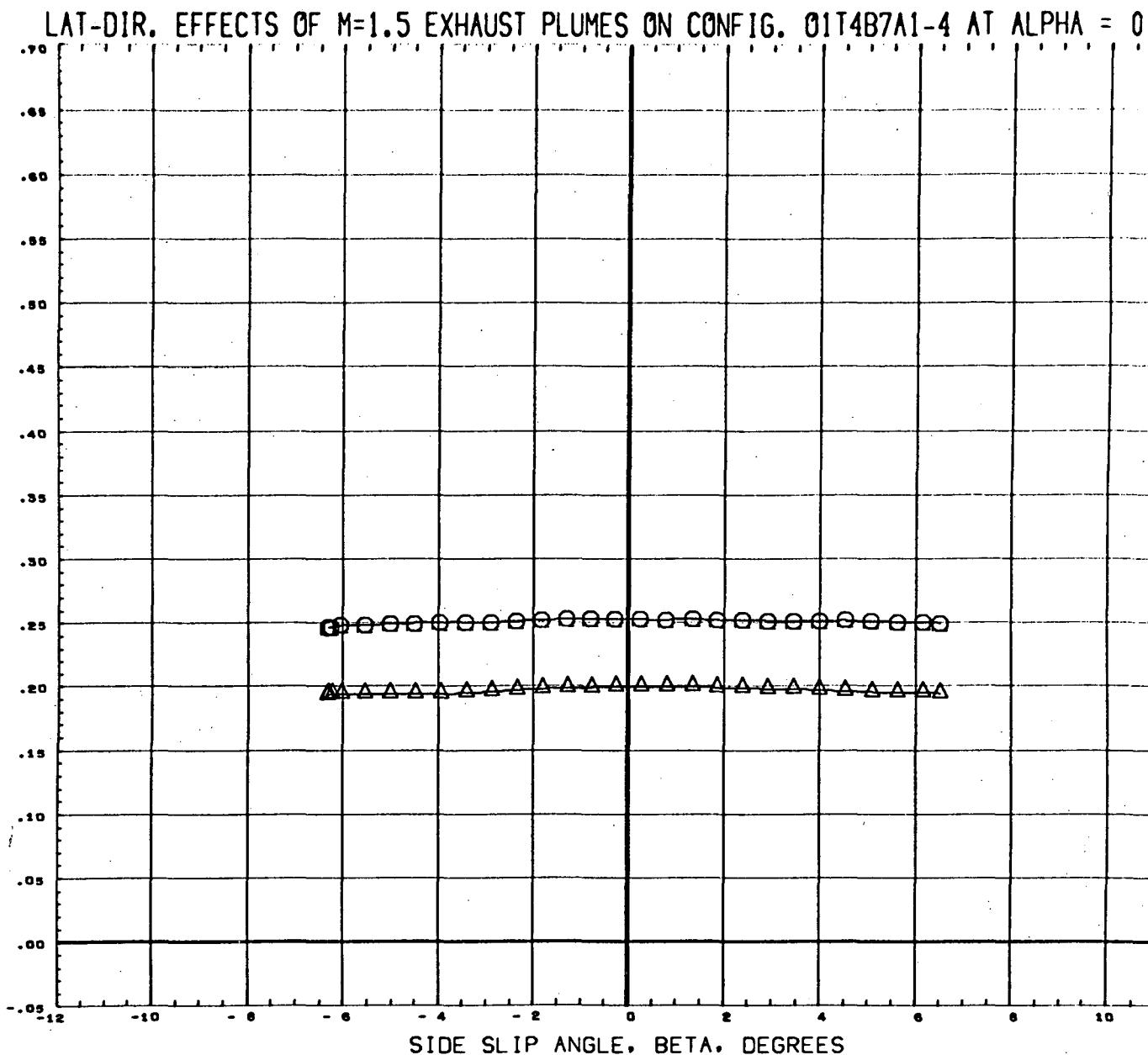
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7573)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7575)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

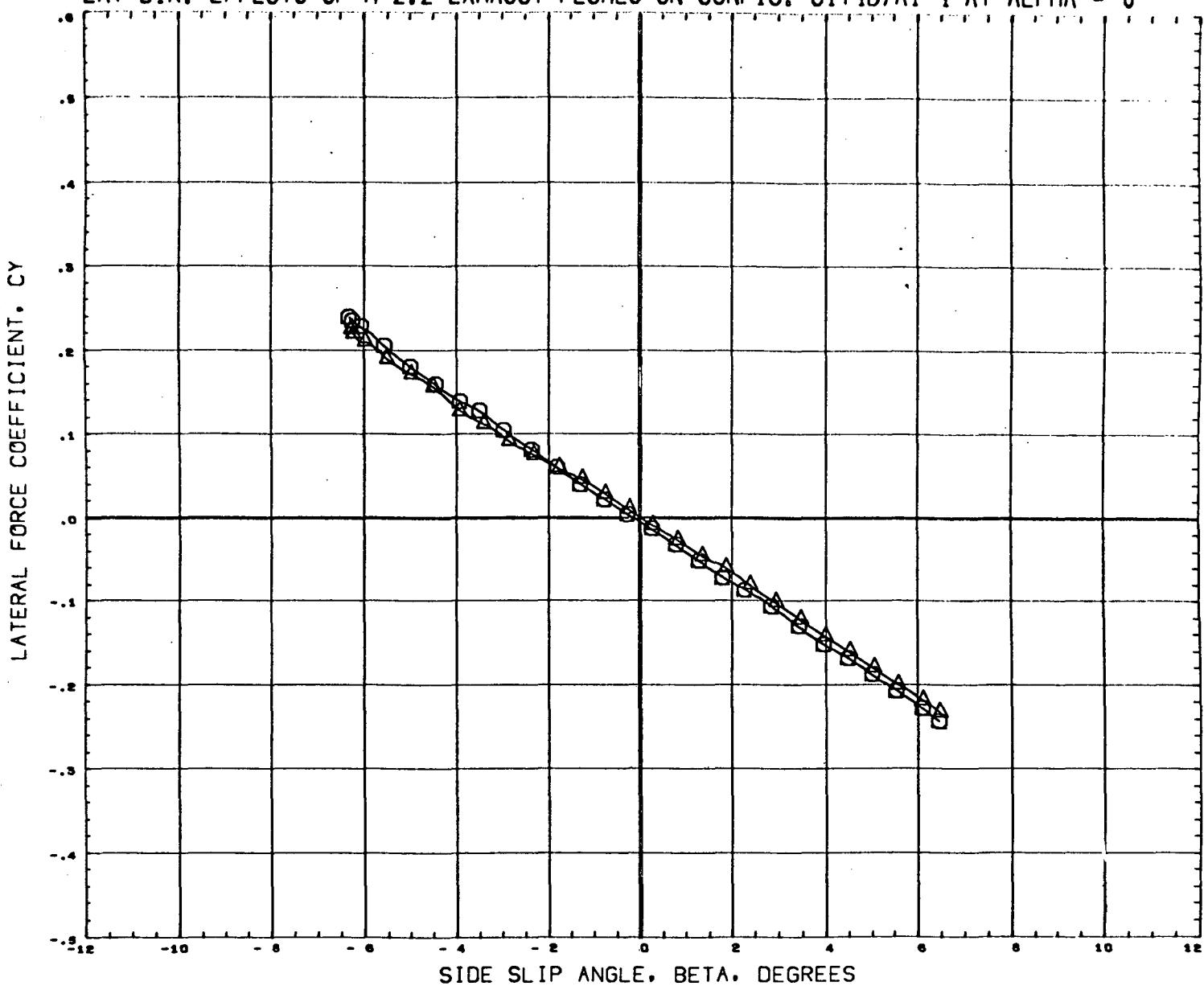
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FOREBODY AXIAL FORCE COEFFICIENT • CAF



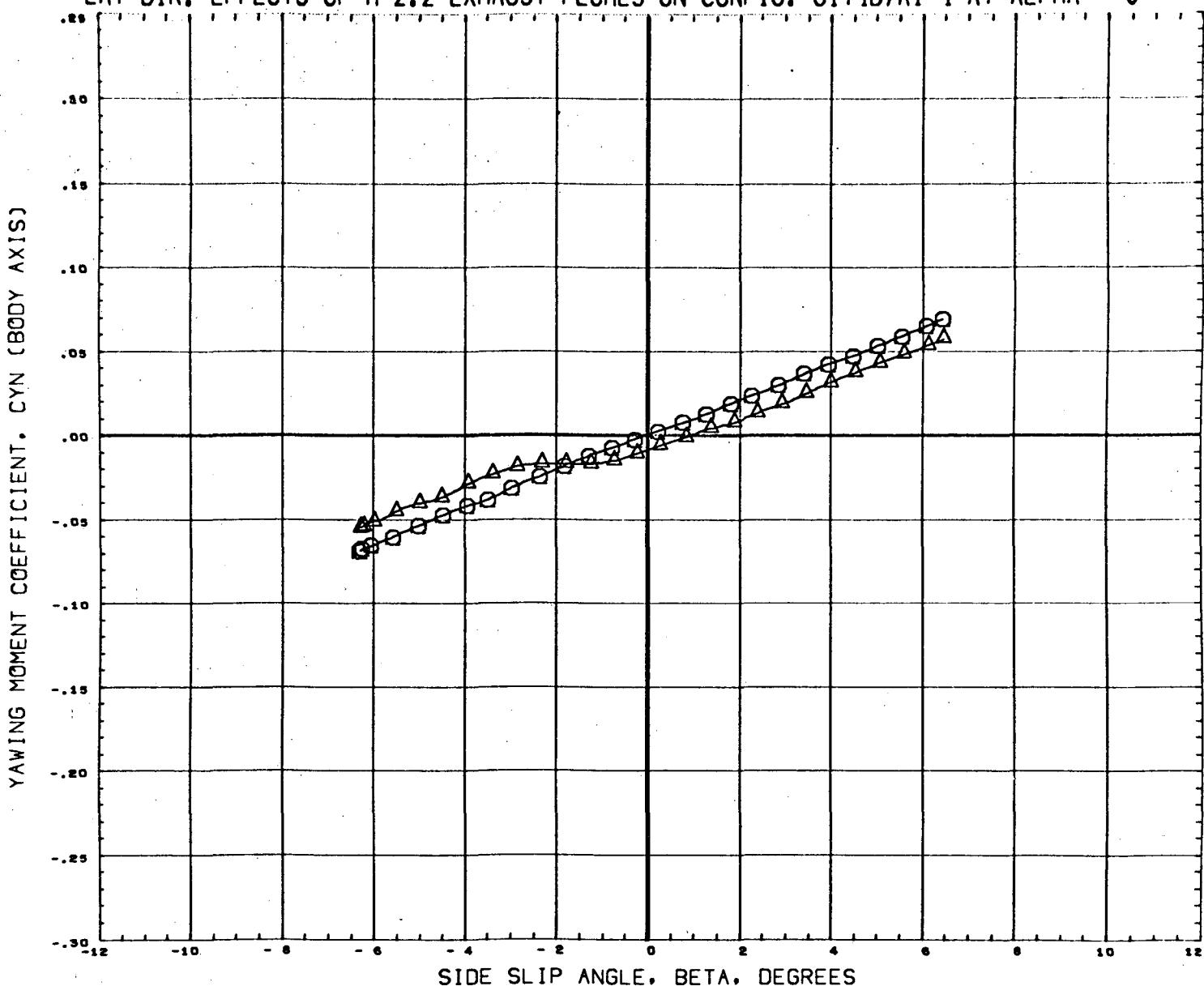
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7575)	Q	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.5040 SQ.FT.
(RD7575)	△	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
							BREF 682.0004 IN.
							XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

LAT-DIR. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7573)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7581)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 682.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

LAT-DIR. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1T4B7A1-4 AT ALPHA = 0

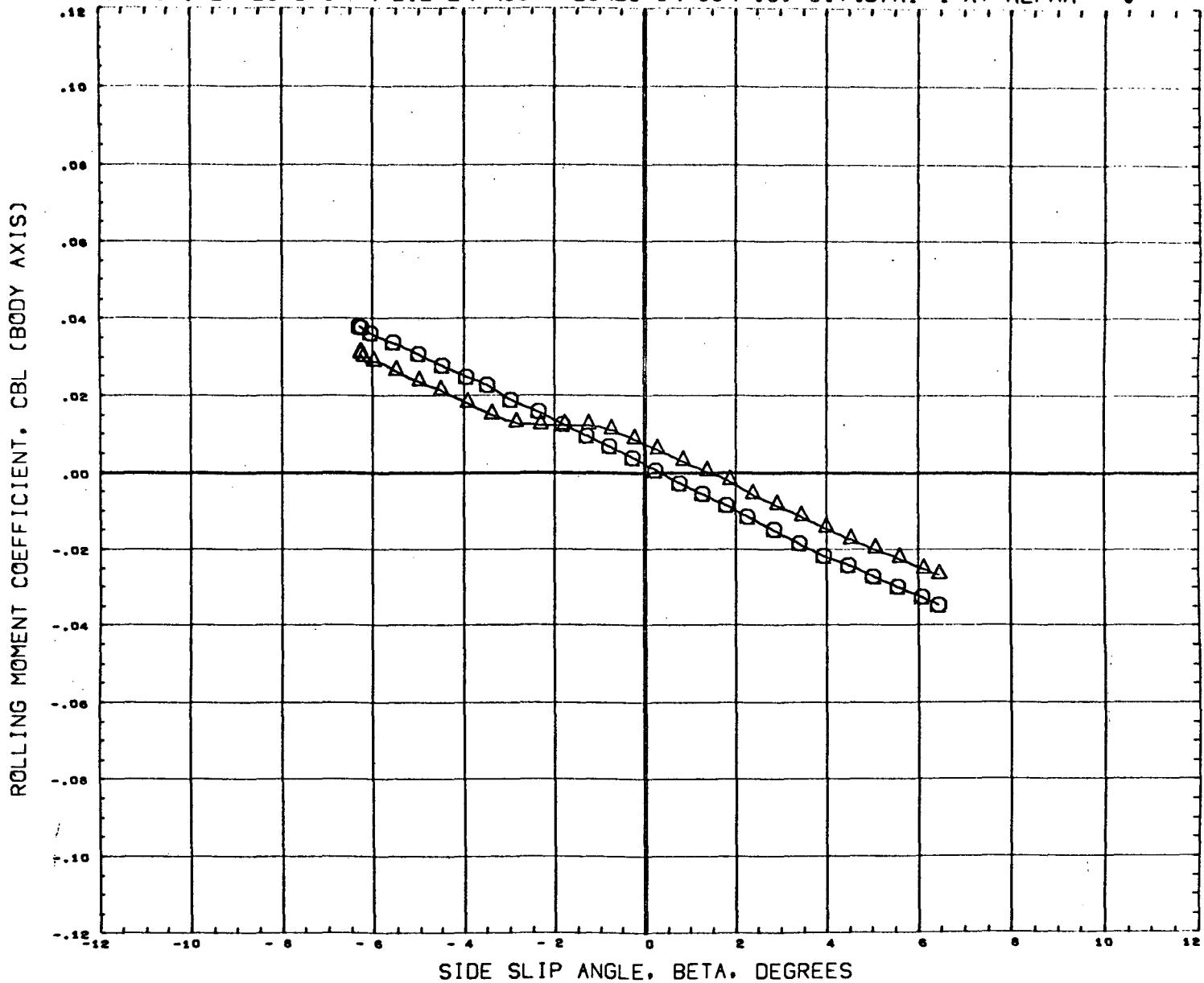


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7573)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7581)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 682.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

MACH 2.20

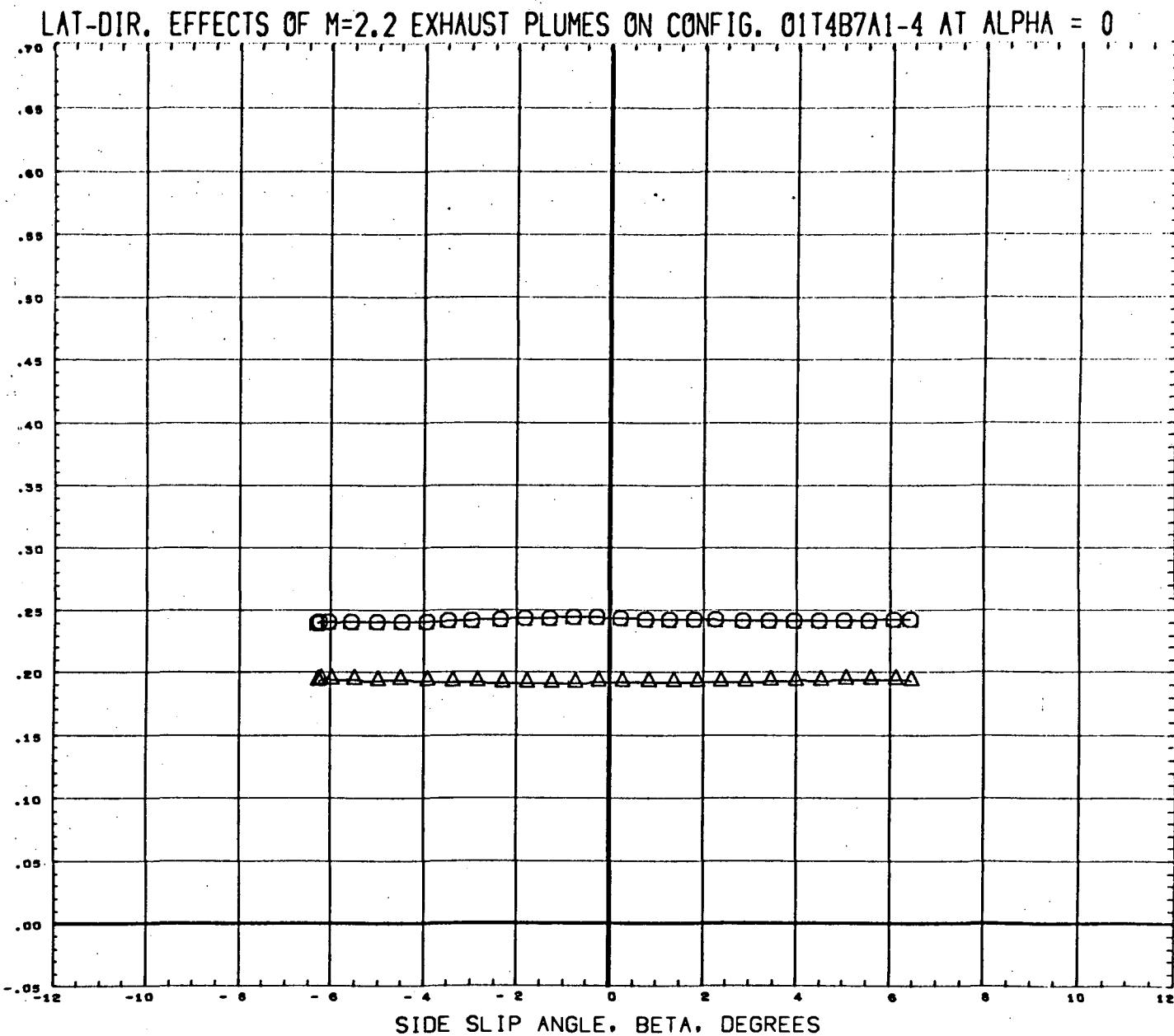
PAGE 187

LAT-DIR. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. 01T4B7A1-4 AT ALPHA = 0



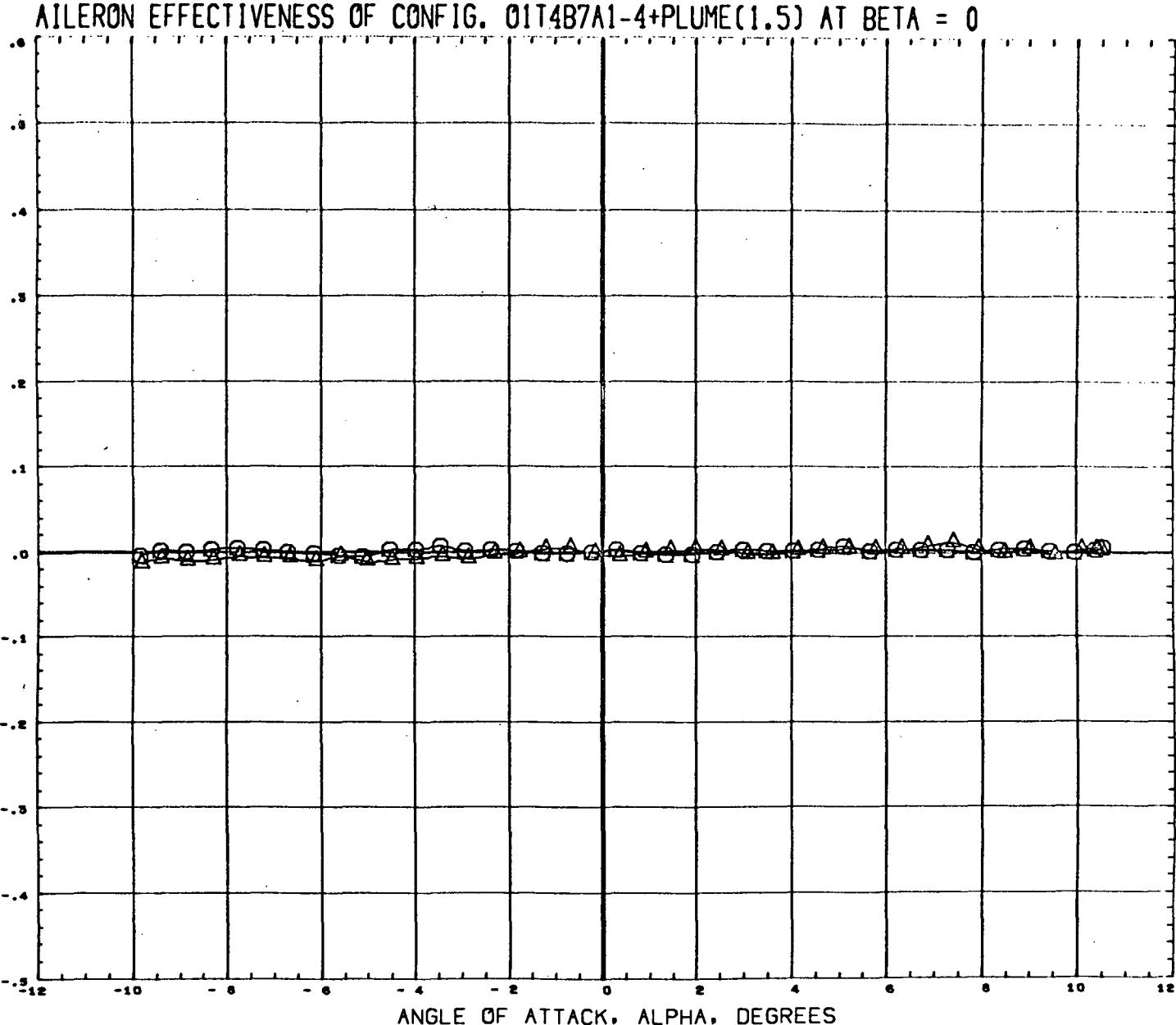
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7573)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7581)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2,2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

FOREBODY AXIAL FORCE COEFFICIENT, CAF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7573)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7581)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 682.0004 IN.
						XMRP 957.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

AILERON EFFECTIVENESS OF CONFIG. O1T4B7A1-4+PLUME(1.5) AT BETA = 0



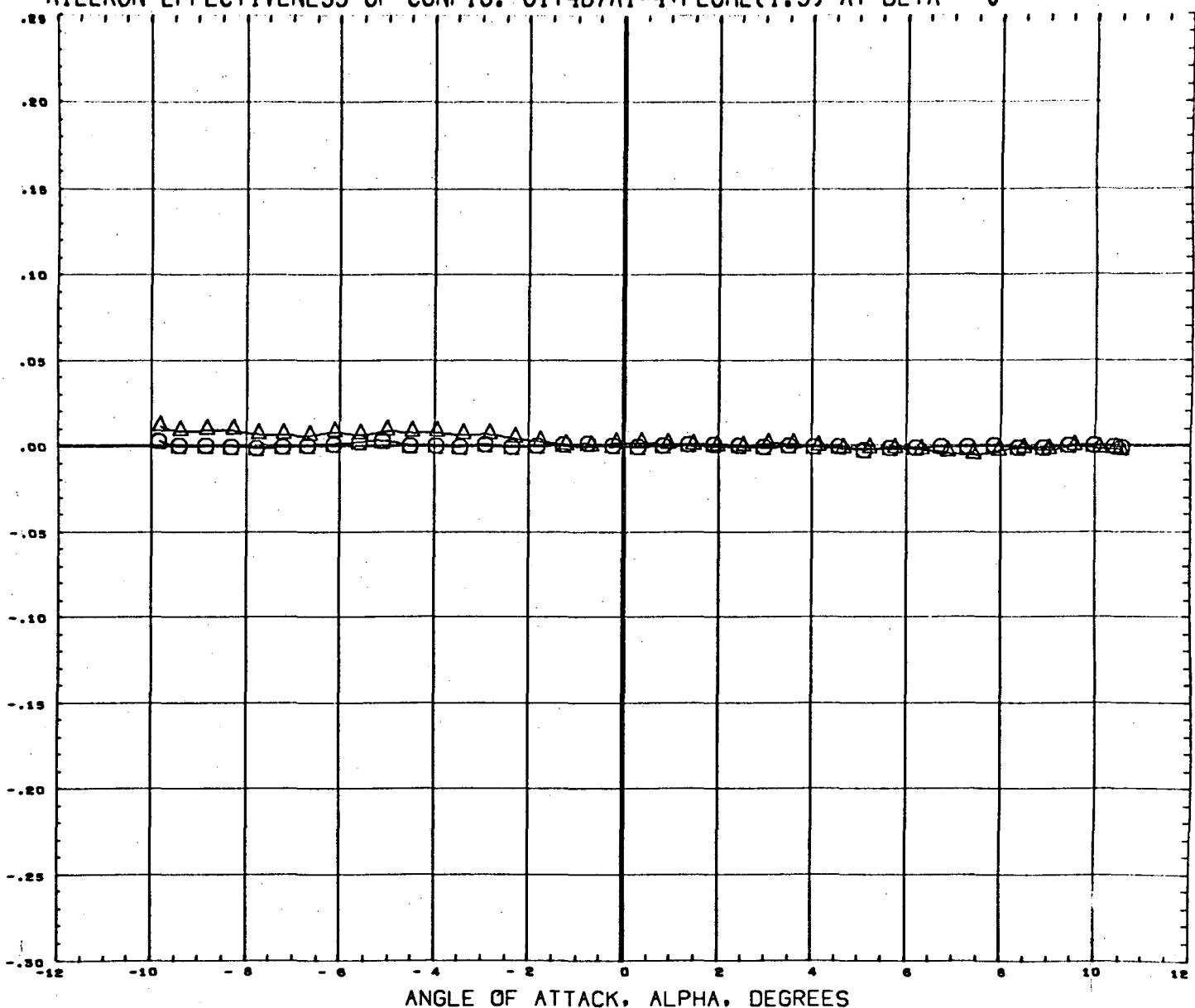
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 5155.3040 50.FT.
(RD7576)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
					BREF 882.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

MACH 1.51

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AILERON EFFECTIVENESS OF CONFIG. 01T4B7A1-4+PLUME(1.5) AT BETA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

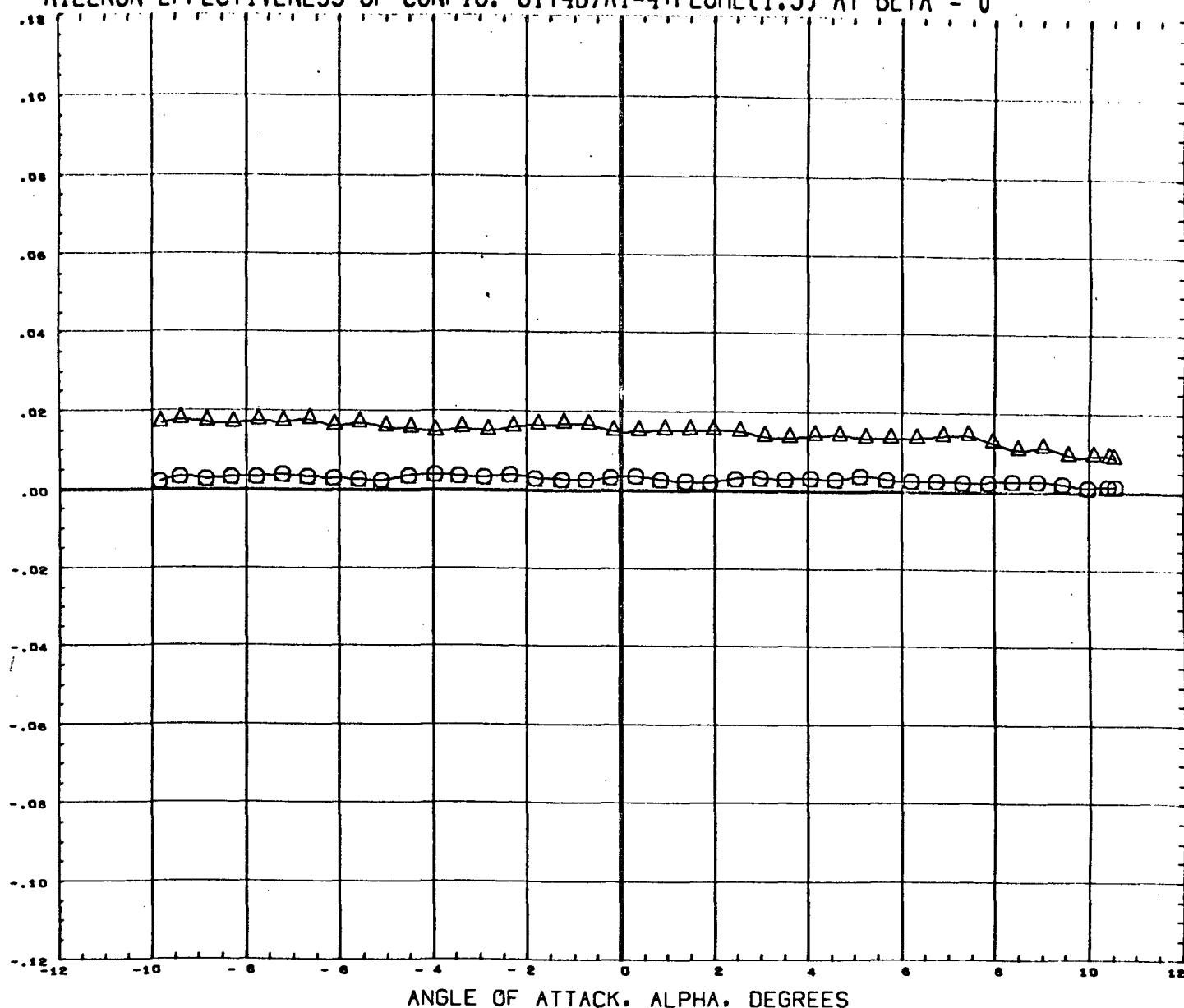
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7574)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7576)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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AILERON EFFECTIVENESS OF CONFIG. O1T4B7A1-4+PLUME(1.5) AT BETA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

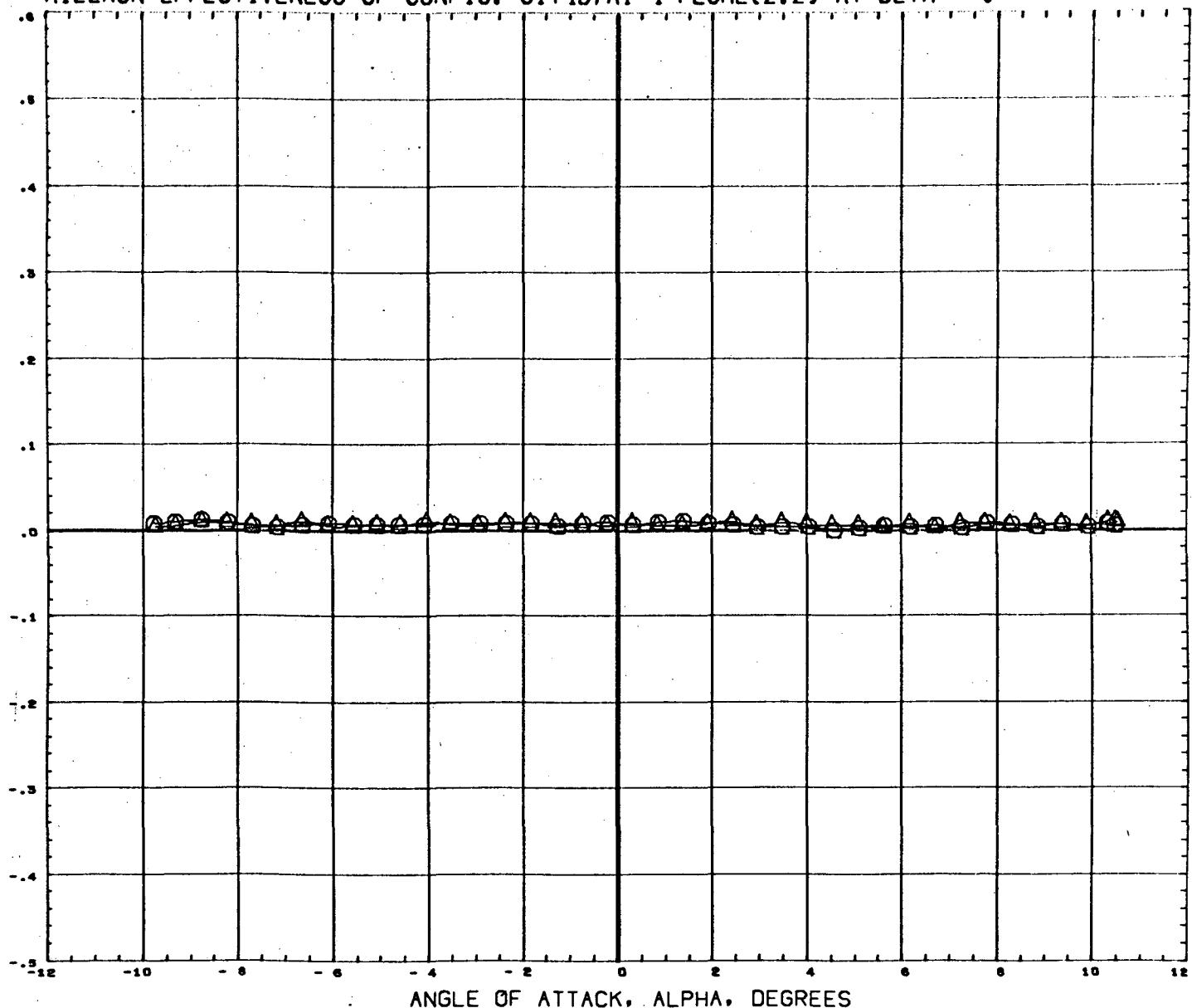
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7576)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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AILERON EFFECTIVENESS OF CONFIG. O1T4B7A1-4+PLUME(2.2) AT BETA = 0

LATERAL FORCE COEFFICIENT, CY



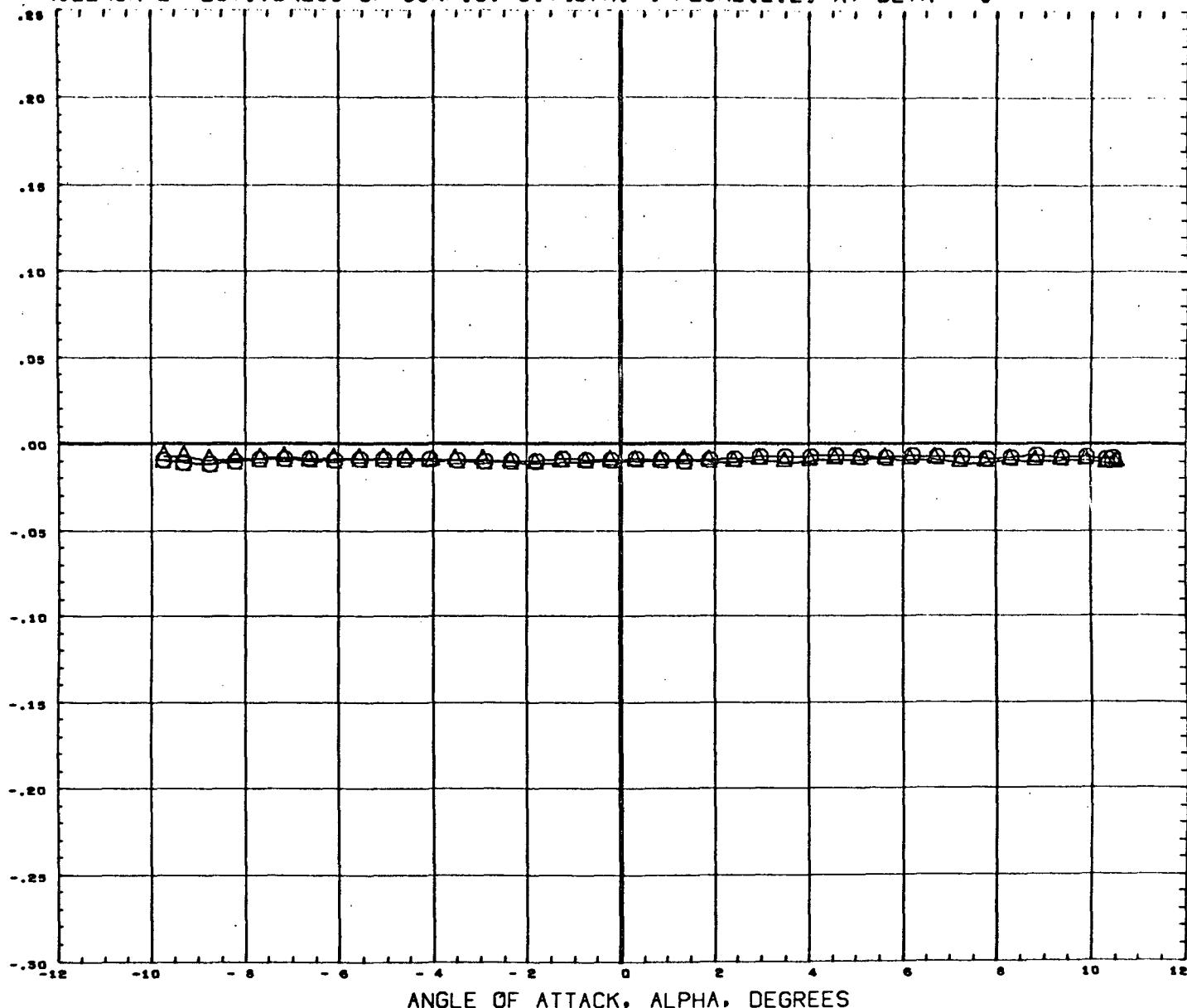
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7560)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7562)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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AILERON EFFECTIVENESS OF CONFIG. O1T4B7A1-4+PLUME(2.2) AT BETA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

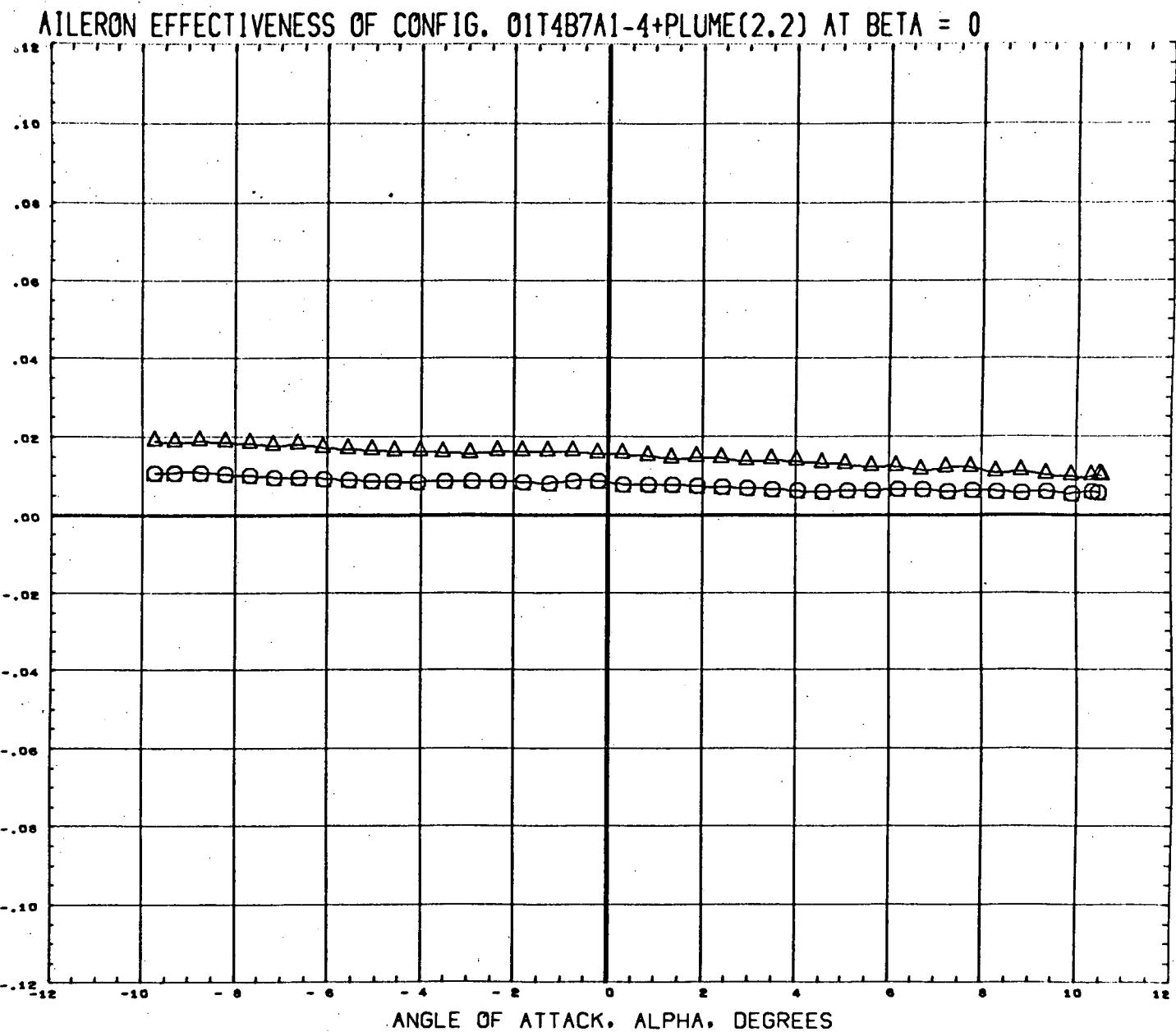


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7580)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

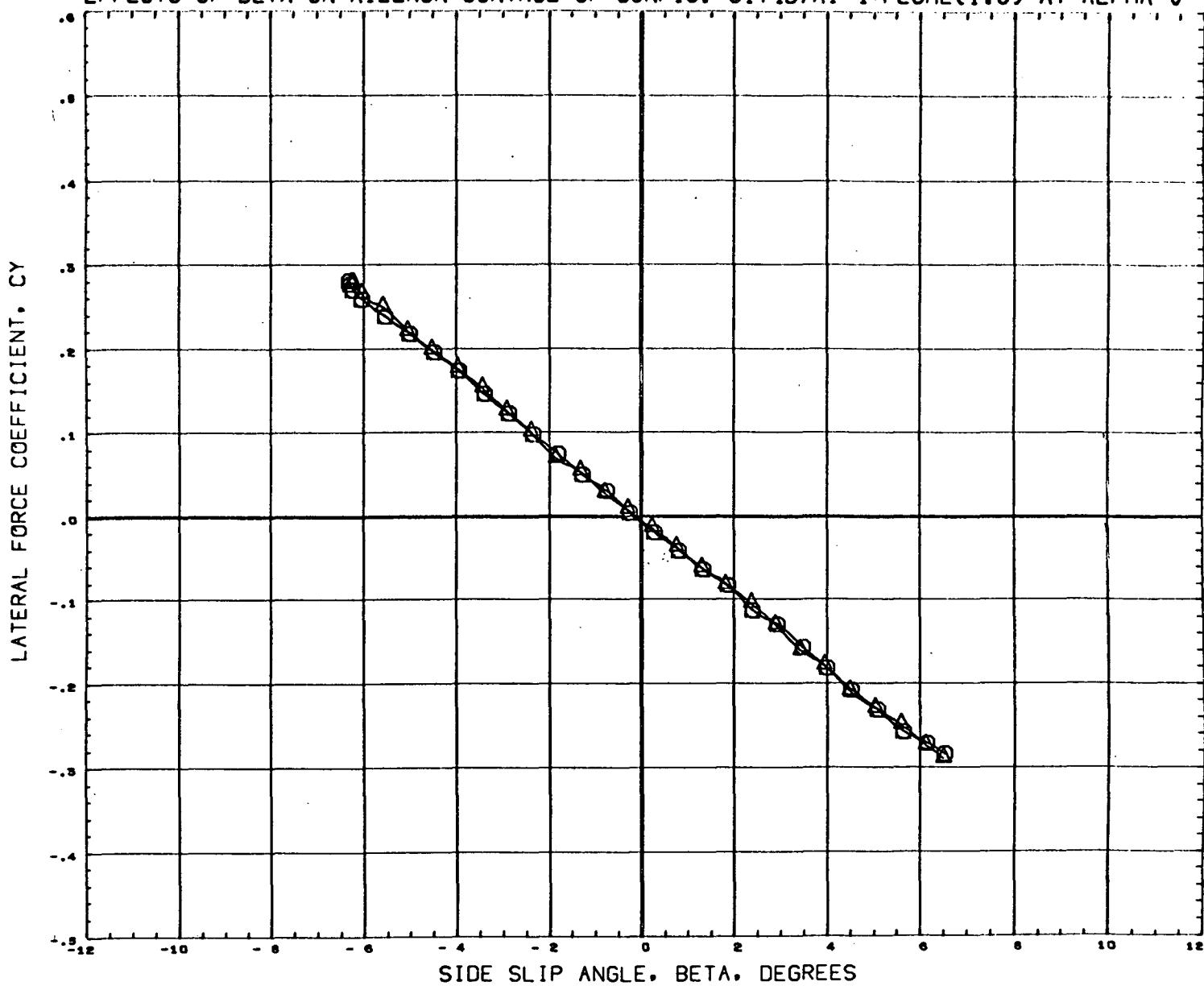
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7580)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
						BREF 682.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH

2.20

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EFFECTS OF BETA ON AILERON CONTROL OF CONFIG. 01T4B7A1-4+PLUME(1.5) AT ALPHA=0



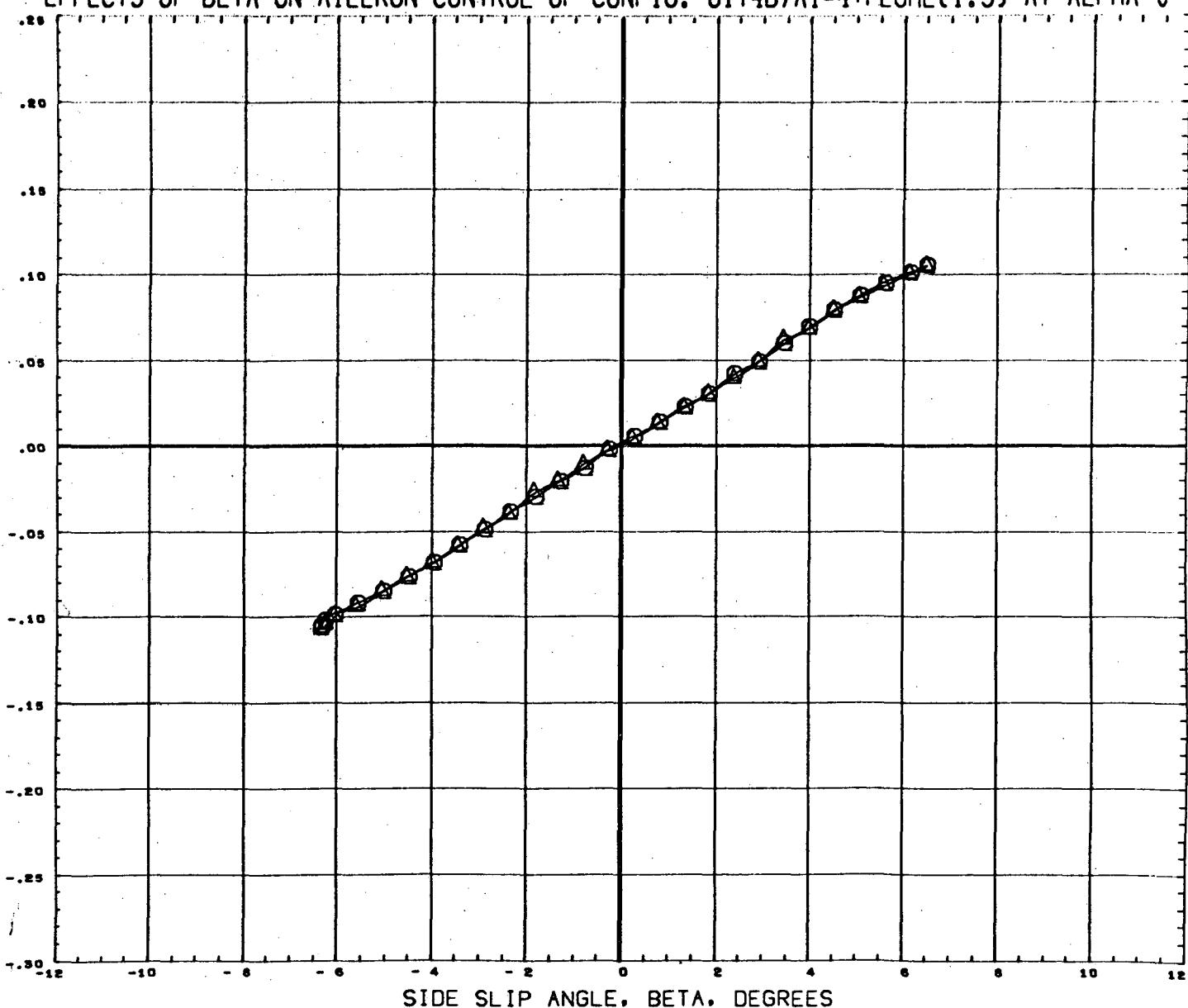
DATA SET SYMBOL		CONFIGURATION DESCRIPTION			ALPHA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION	
(RD7575)	Q	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)			0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7577)	Q	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)			0.000	0.000	20.000	0.000	LREF	609.5004 IN.
									BREF	682.0004 IN.
									XMRP	557.0004 IN.
									YMRP	0.0000 IN.
									ZMRP	200.0004 IN.
									SCALE	0.0060

MACH 1.51

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EFFECTS OF BETA ON AILERON CONTROL OF CONFIG. O1T4B7A1-4+PLUME(1.5) AT ALPHA=0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7575)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7577)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

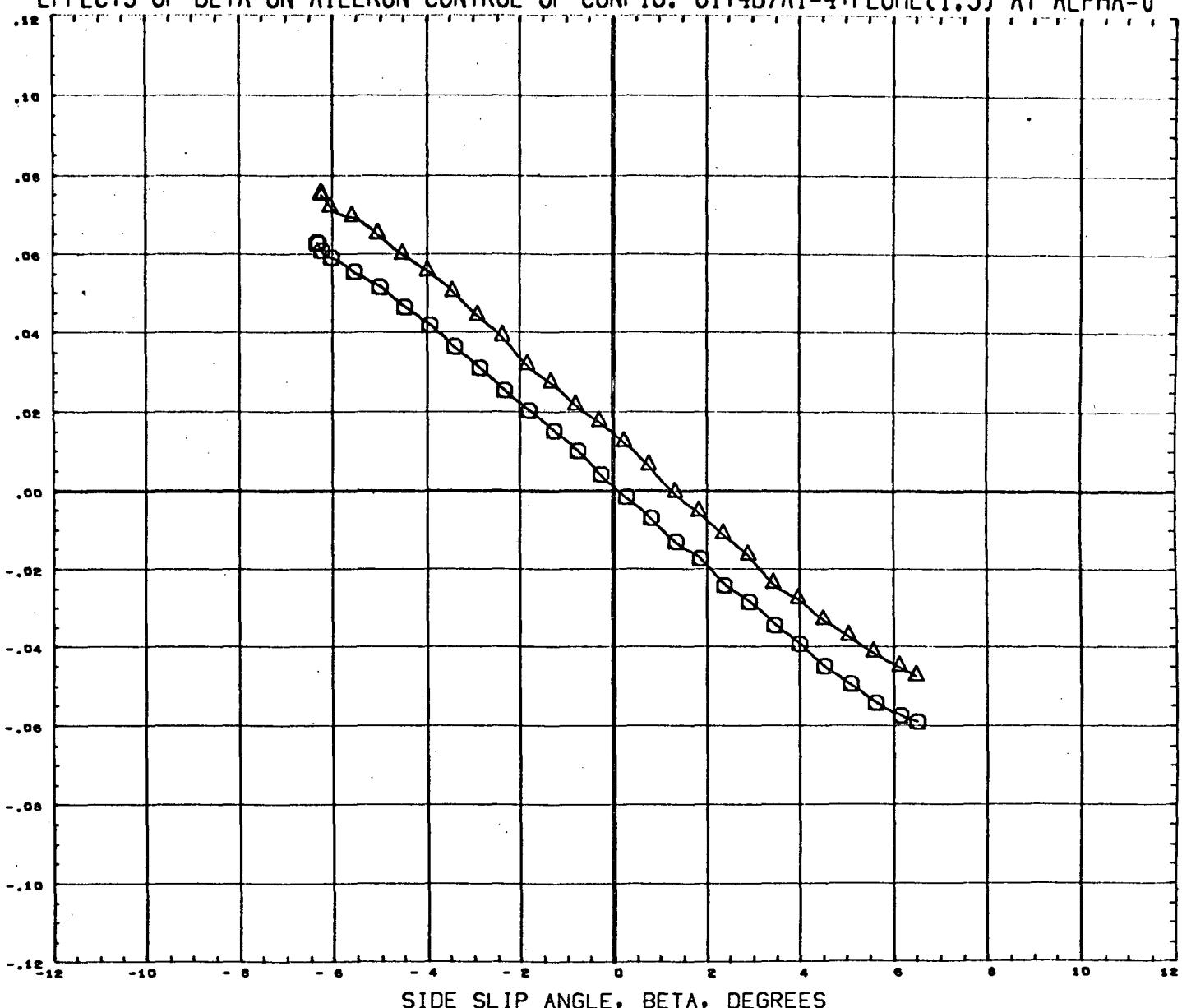
MACH

1.51

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EFFECTS OF BETA ON AILERON CONTROL OF CONFIG. O1T4B7A1-4+PLUME(1.5) AT ALPHA=0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



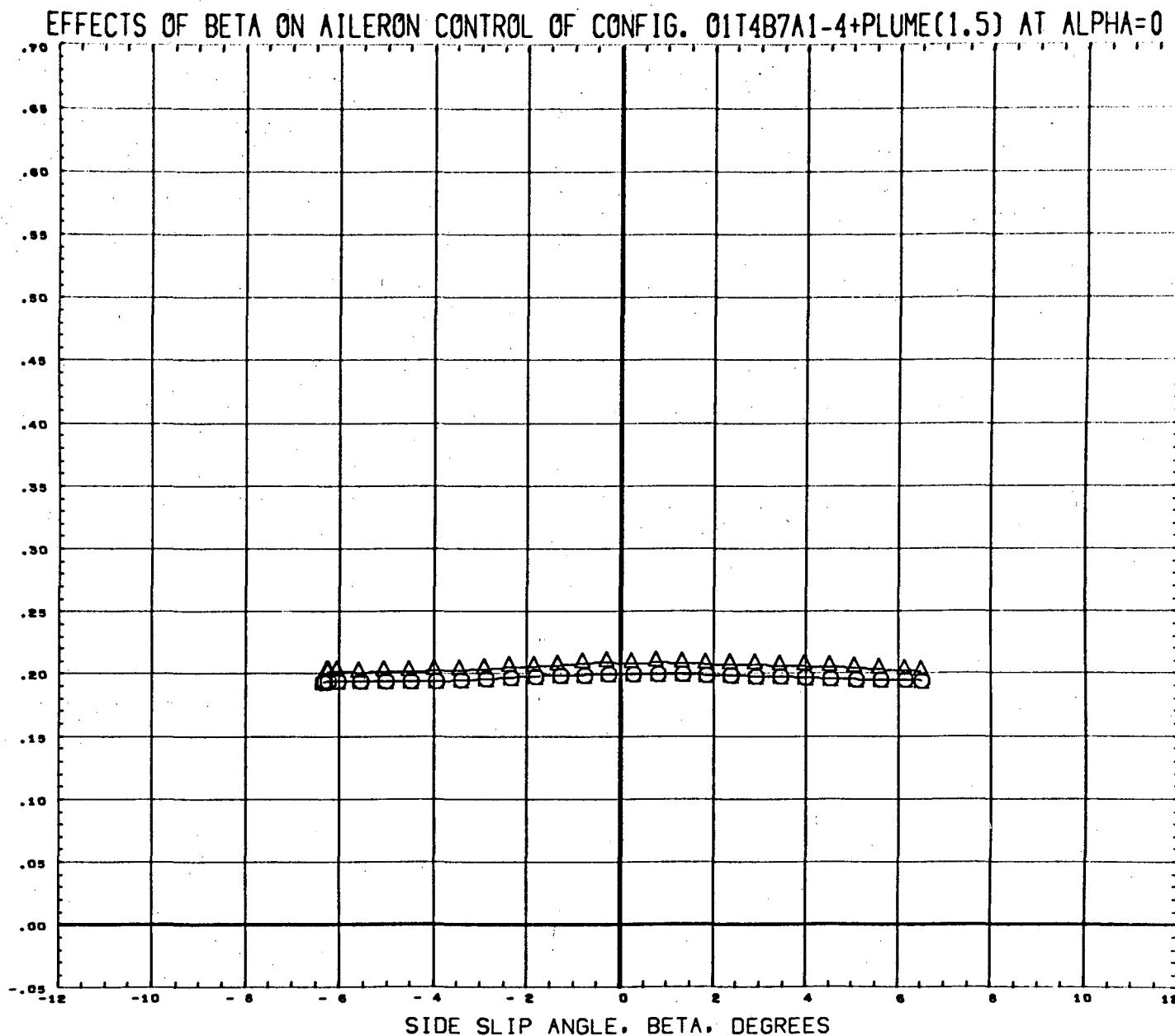
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7575)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7577)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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FOREBODY AXIAL FORCE COEFFICIENT. CAF

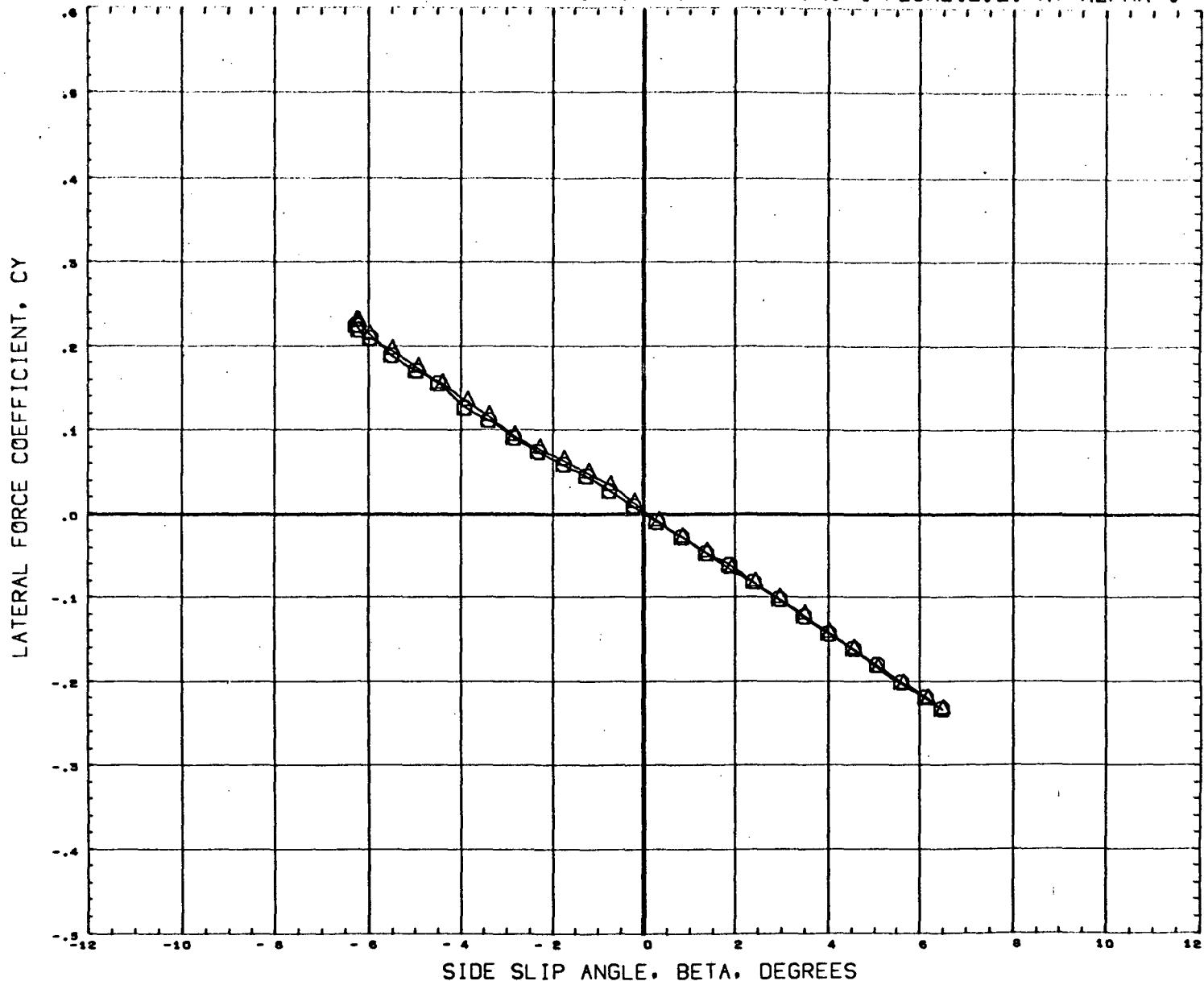


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(R07575)	MDAC S-222 COMPOSITE (T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(R07577)	MDAC S-222 COMPOSITE (T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
					BREF 882.0004 IN.	
					XMRP 957.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

MACH 1.51

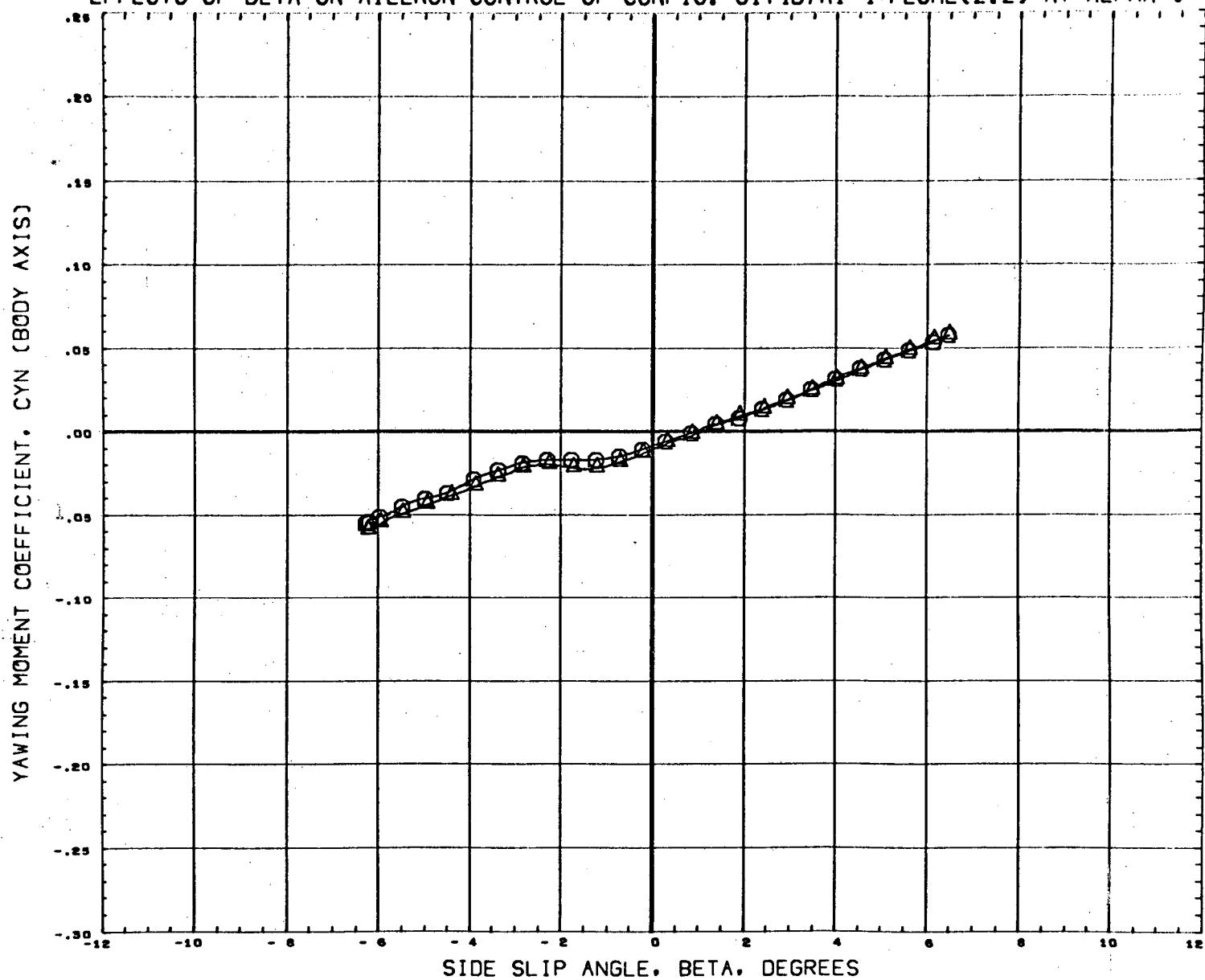
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EFFECTS OF BETA ON AILERON CONTROL OF CONFIG. O1T4B7A1-4+PLUME(2.2) AT ALPHA=0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
(RD7581)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7583)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	20.000	0.000	LREF 609.9004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

EFFECTS OF BETA ON AILERON CONTROL OF CONFIG. 01T4B7A1-4+PLUME(2.2) AT ALPHA=0



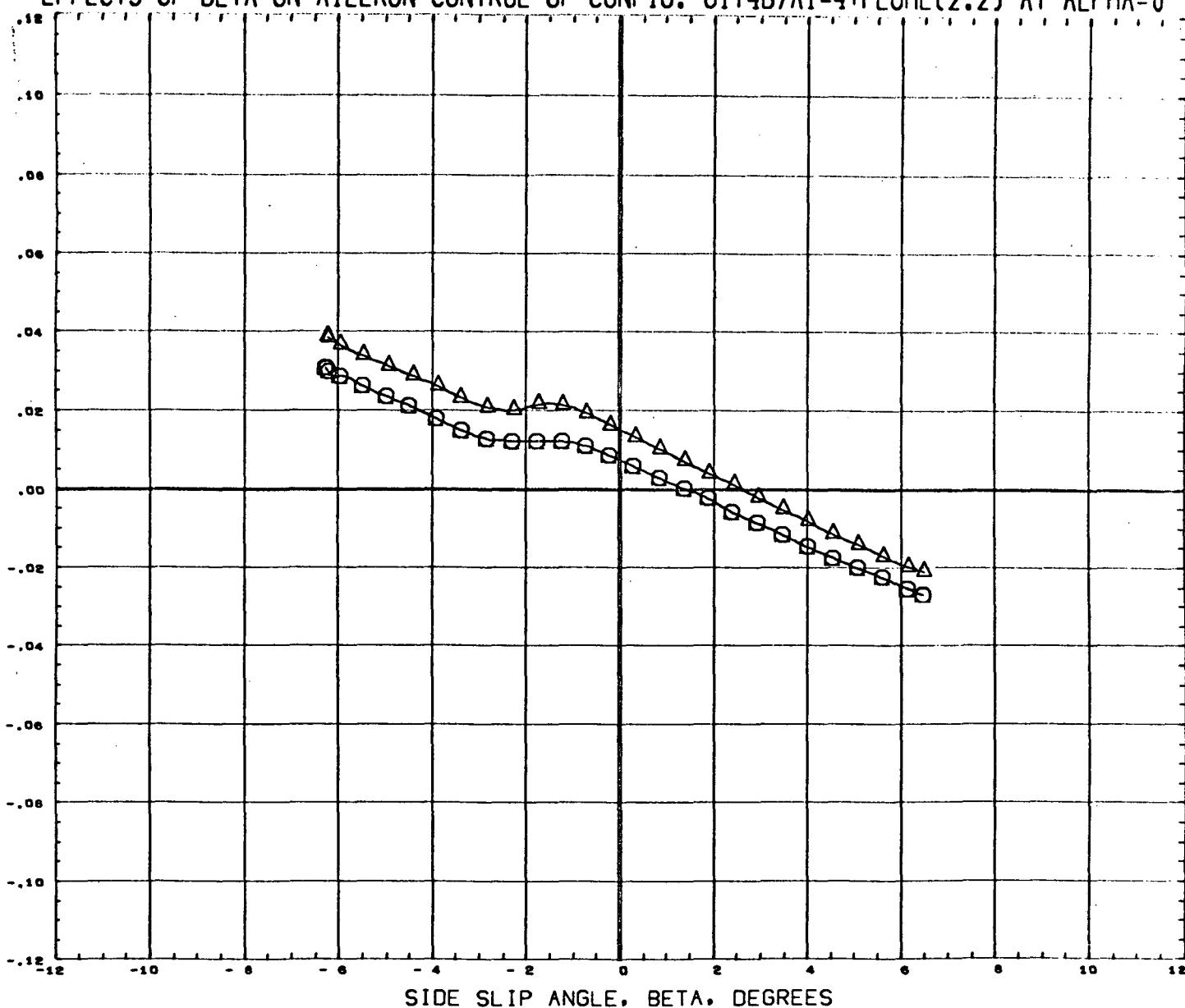
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7581)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7583)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 662.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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EFFECTS OF BETA ON AILERON CONTROL OF CONFIG. O1T4B7A1-4+PLUME(2.2) AT ALPHA=0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(RD7581)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7583)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	20.000	0.000	LREF	609.5004 IN.

BREF 682.0004 IN.

XMRP 557.0004 IN.

YMRP 0.0000 IN.

ZMRP 200.0004 IN.

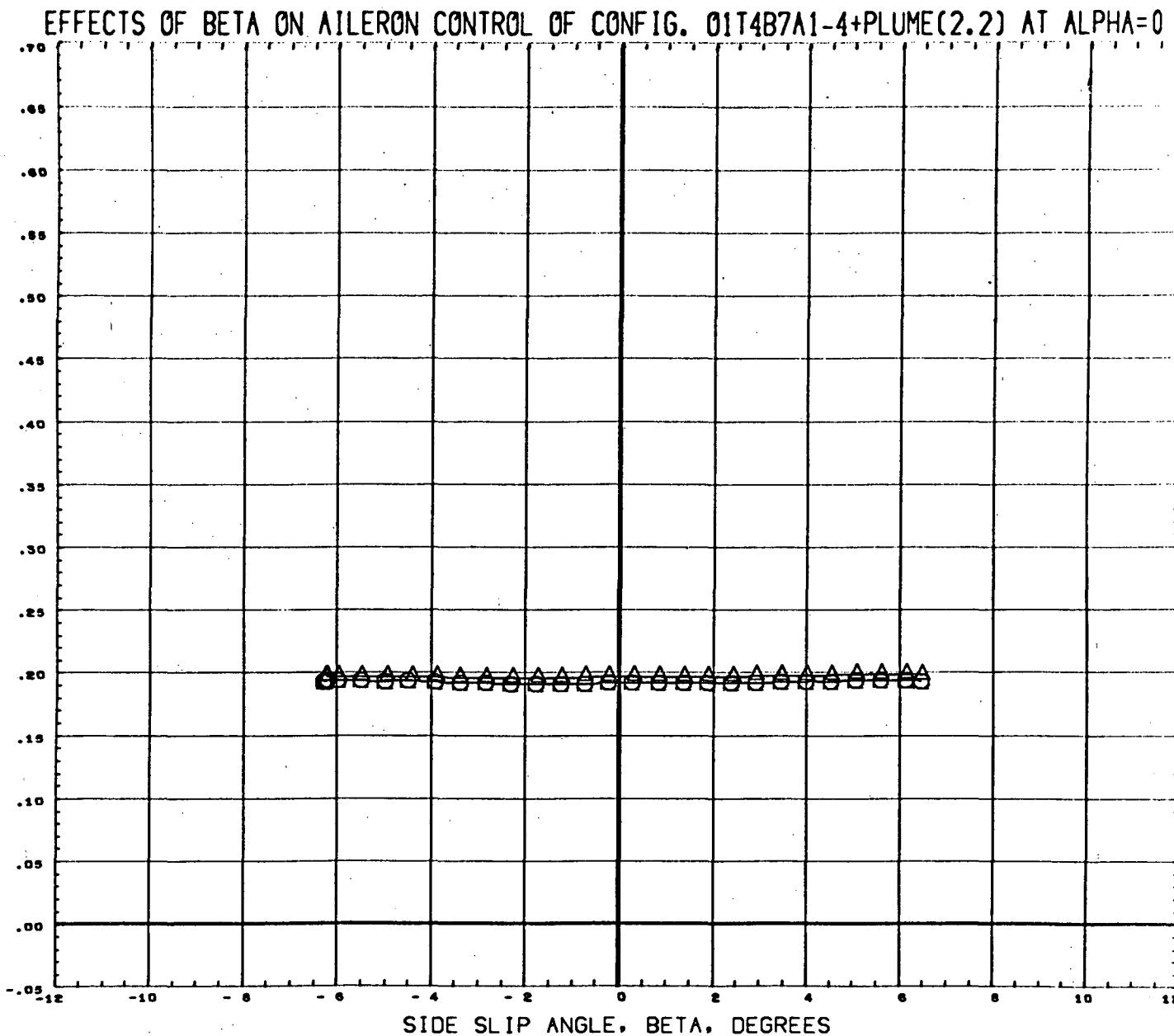
SCALE 0.0060

MACH

2.20

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FOREBODY AXIAL FORCE COEFFICIENT, CAF

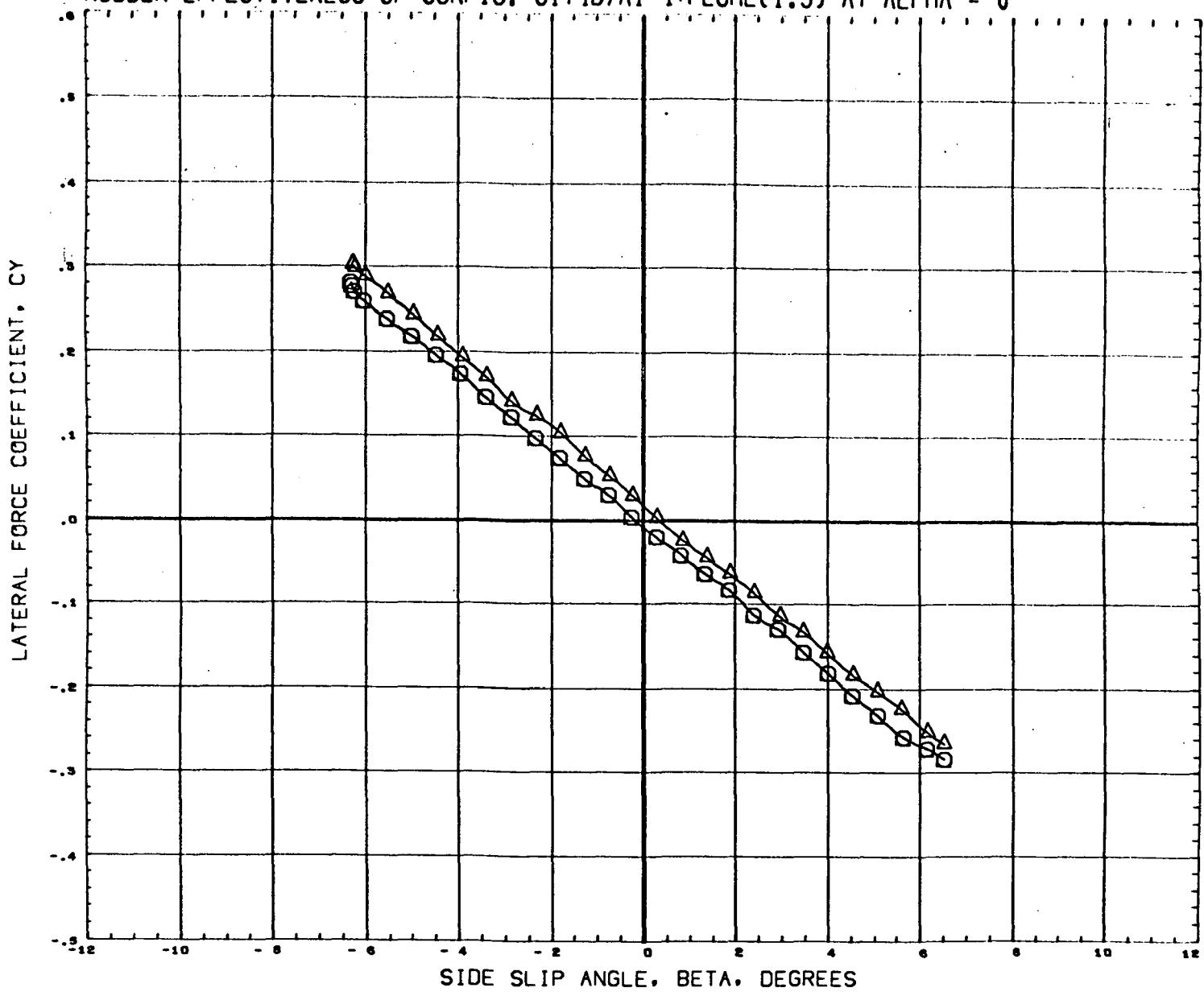


DATA SET SYMBOL		CONFIGURATION DESCRIPTION				ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
(RD7581)	Q	MDAC S-222 COMPOSITE (T-CG) O1T4B7A1-4+PLUME (2.2)				0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(RD7583)	R	MDAC S-222 COMPOSITE (T-CG) O1T4B7A1-4+PLUME (2.2)				0.000	0.000	20.000	0.000	LREF	609.5004	IN.
										BREF	882.0004	IN.
										XMRP	557.0004	IN.
										YMRP	0.0000	IN.
										ZMRP	200.0004	IN.
										SCALE	0.0060	

MACH 2.20

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RUDDER EFFECTIVENESS OF CONFIG. 01T4B7A1-4+PLUME(1.5) AT ALPHA = 0

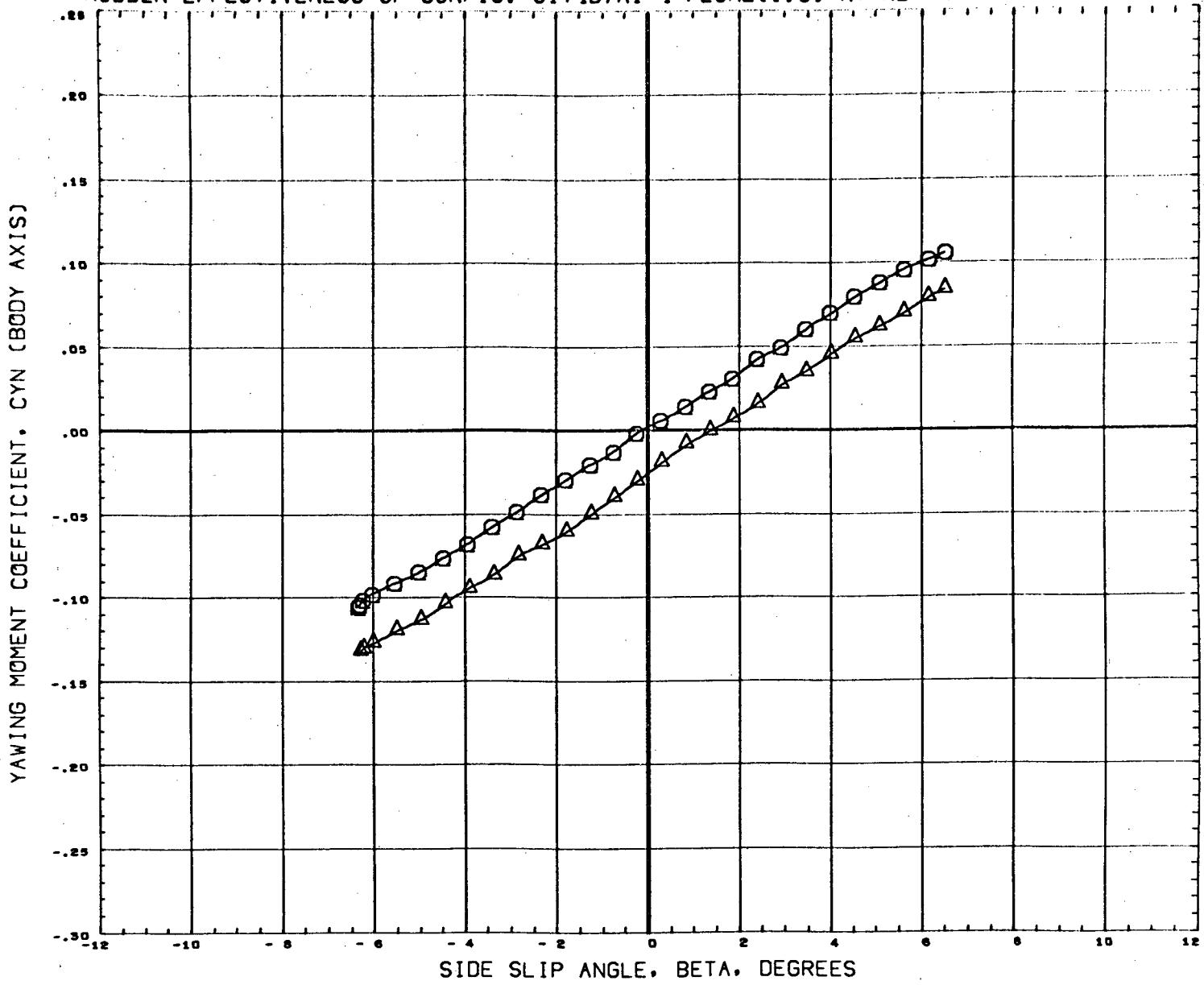


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(RD7575)	Q	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7579)	Q	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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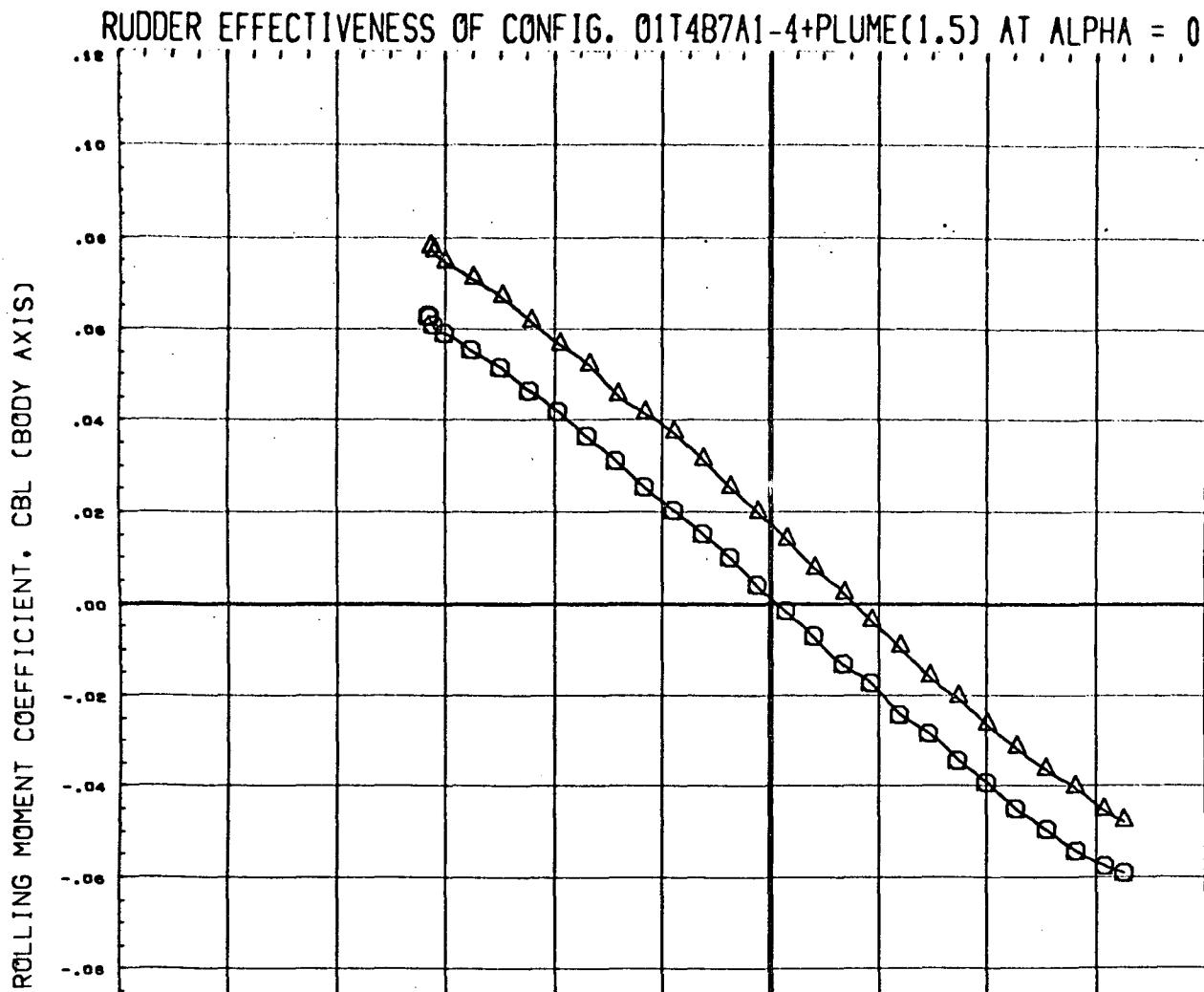
RUDDER EFFECTIVENESS OF CONFIG. 01T4B7A1-4+PLUME(1.5) AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7575)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7579)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

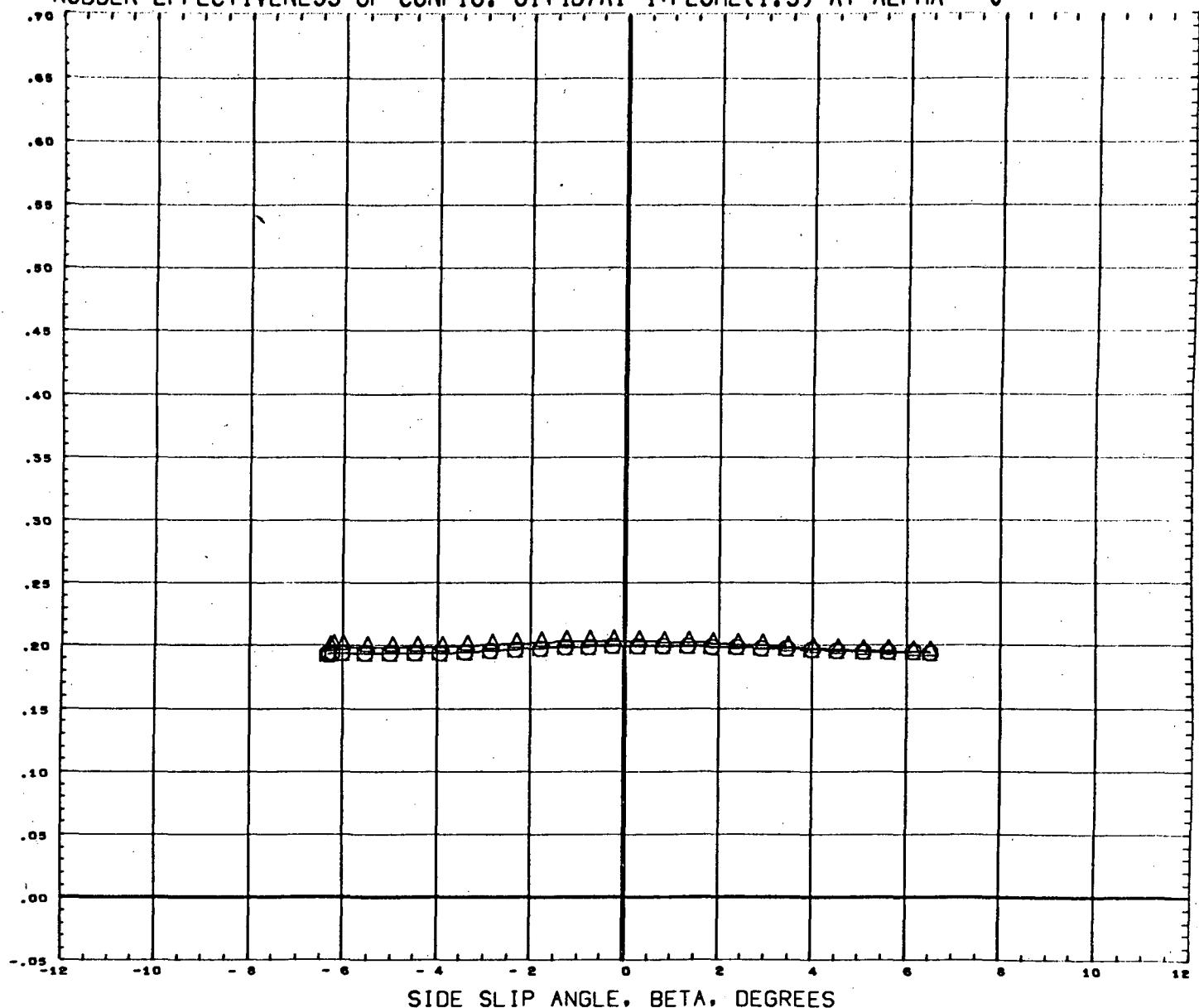
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7575)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7579)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 957.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

RUDDER EFFECTIVENESS OF CONFIG. 01T4B7A1-4+PLUME(1.5) AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF

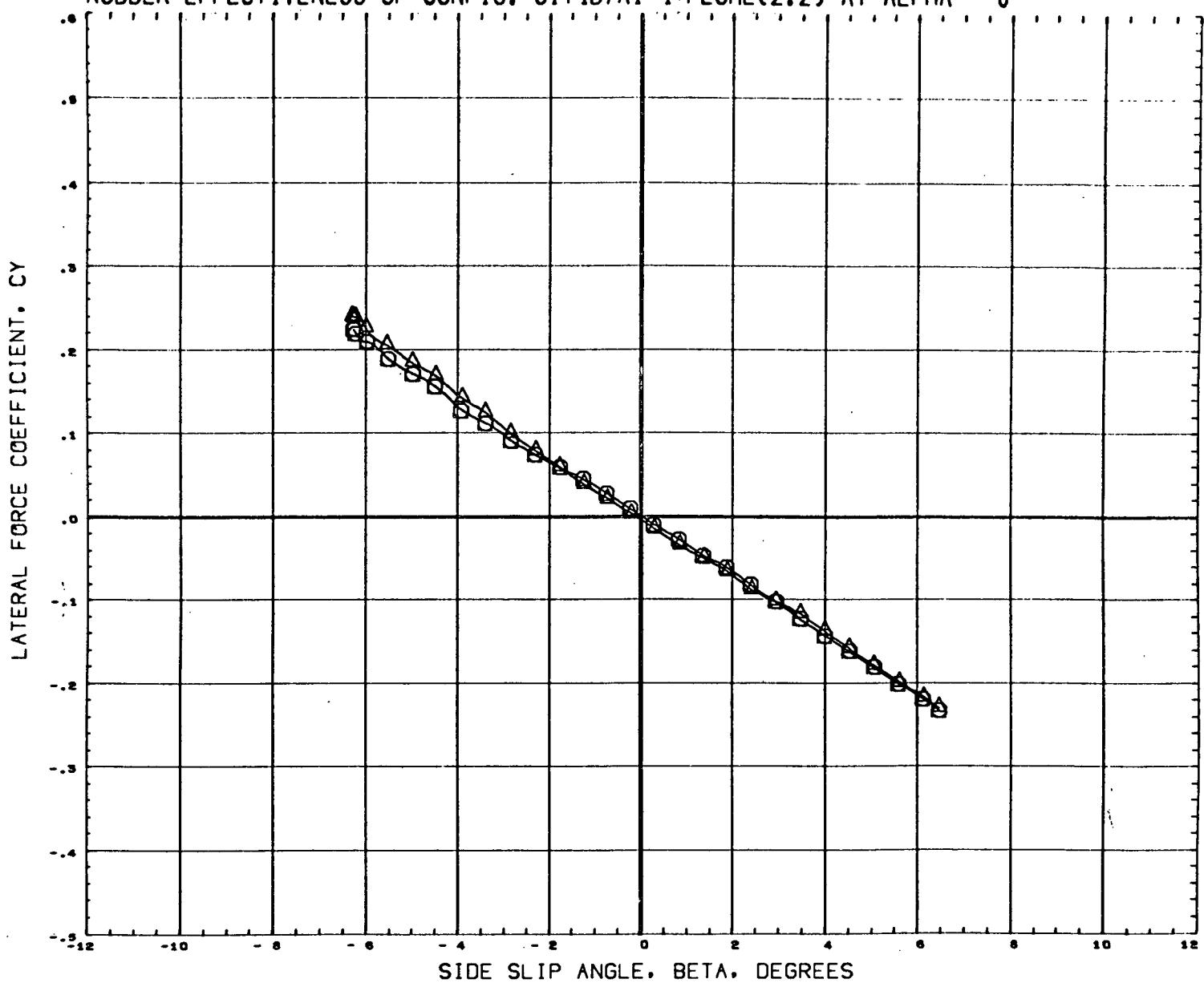


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7575)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7579)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

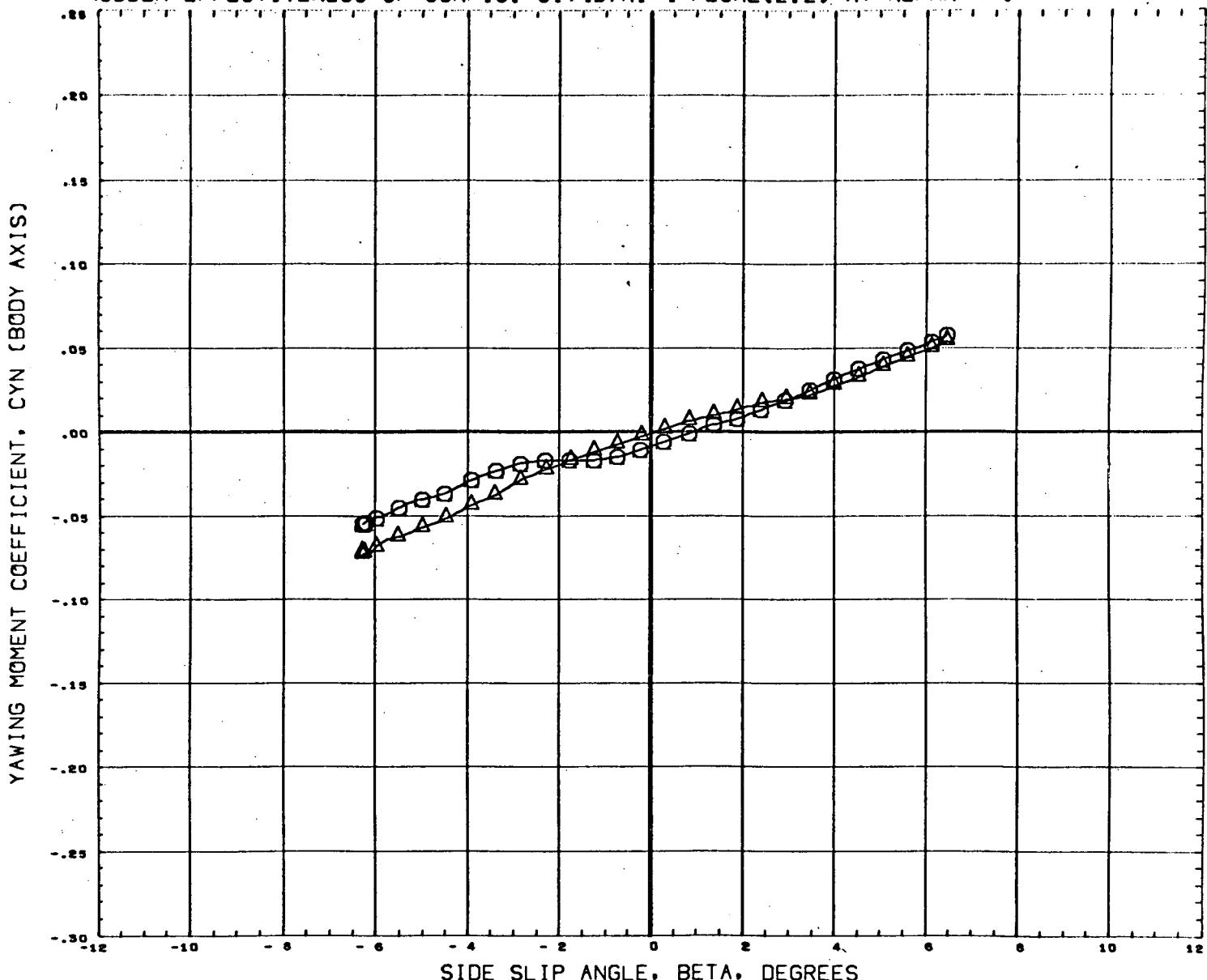
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RUDDER EFFECTIVENESS OF CONFIG. 01T4B7A1-4+PLUME(2.2) AT ALPHA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7561)	Q	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7565)	R	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

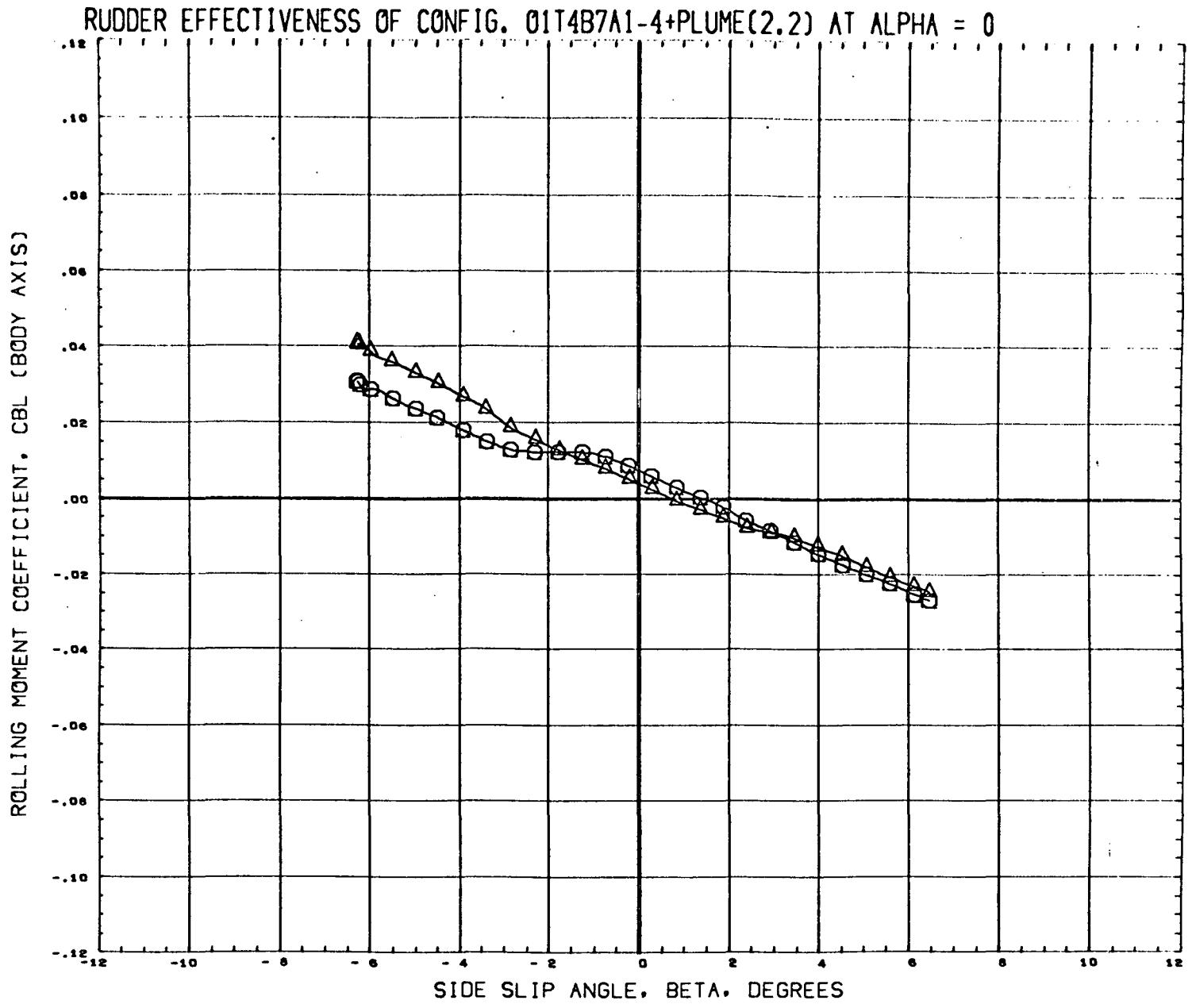
RUDDER EFFECTIVENESS OF CONFIG. O1T4B7A1-4+PLUME(2.2) AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7581)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7585)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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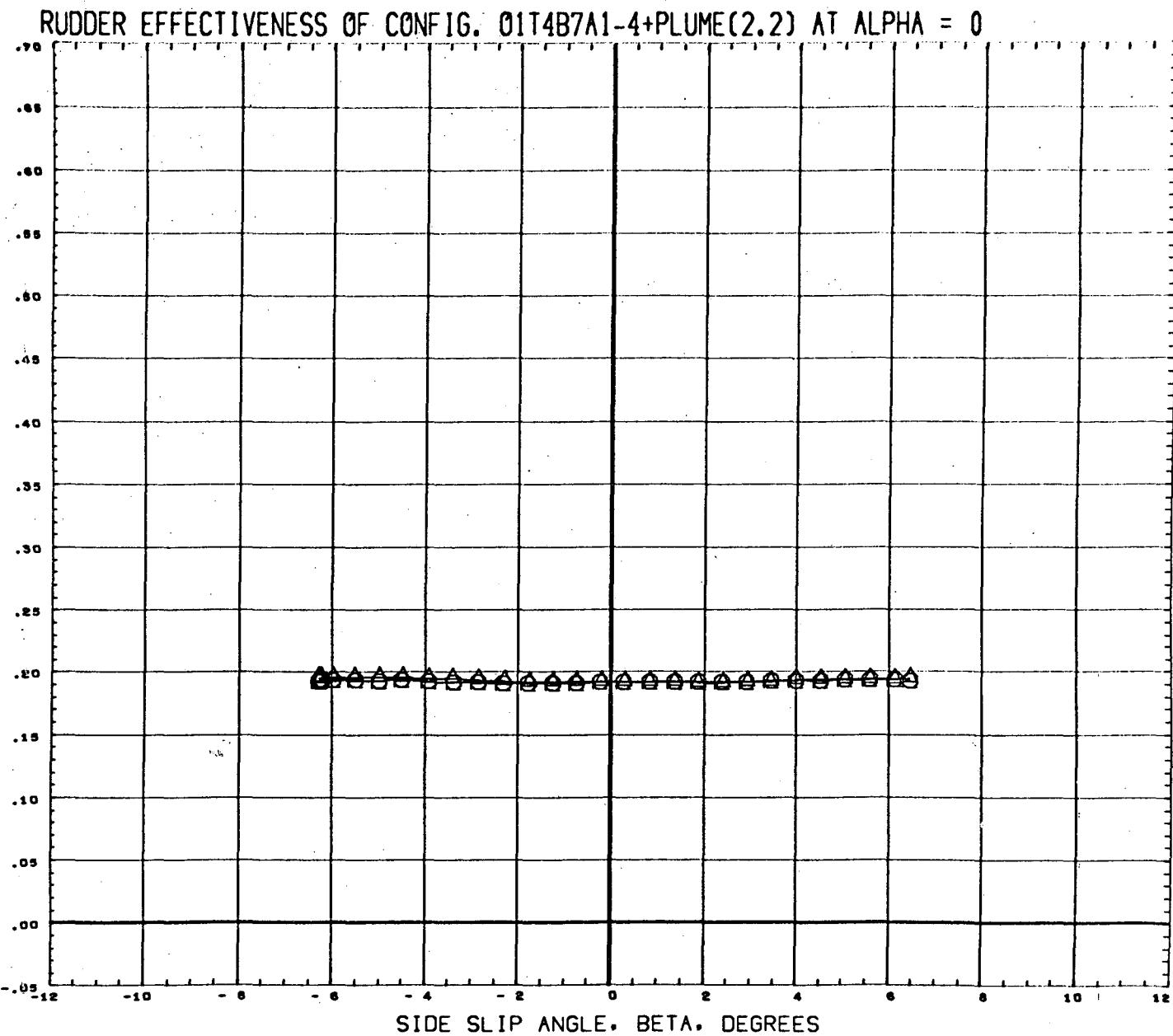


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7581)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7585)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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FOREBODY AXIAL FORCE COEFFICIENT. CAF

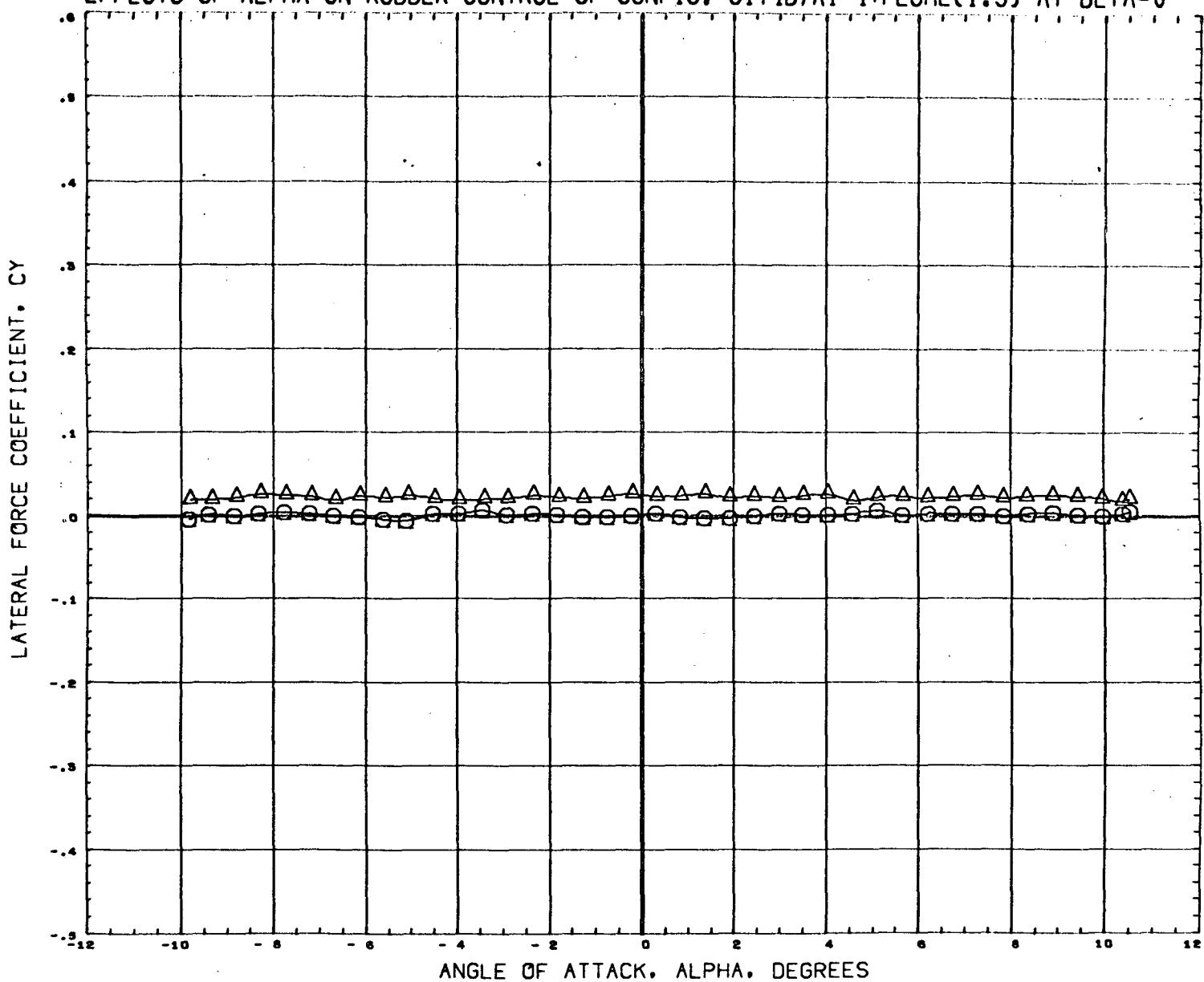


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
						SREF	3155.3040	SQ.FT.
(RD7581)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
(RD7585)	MDAC S-222 COMPOSITE(T-CG) 01T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	10.000	BREF	882.0004	IN.
						XMRP	557.0004	IN.
						YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

MACH 2.20

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EFFECTS OF ALPHA ON RUDDER CONTROL OF CONFIG. O1T4B7A1-4+PLUME(1.5) AT BETA=0

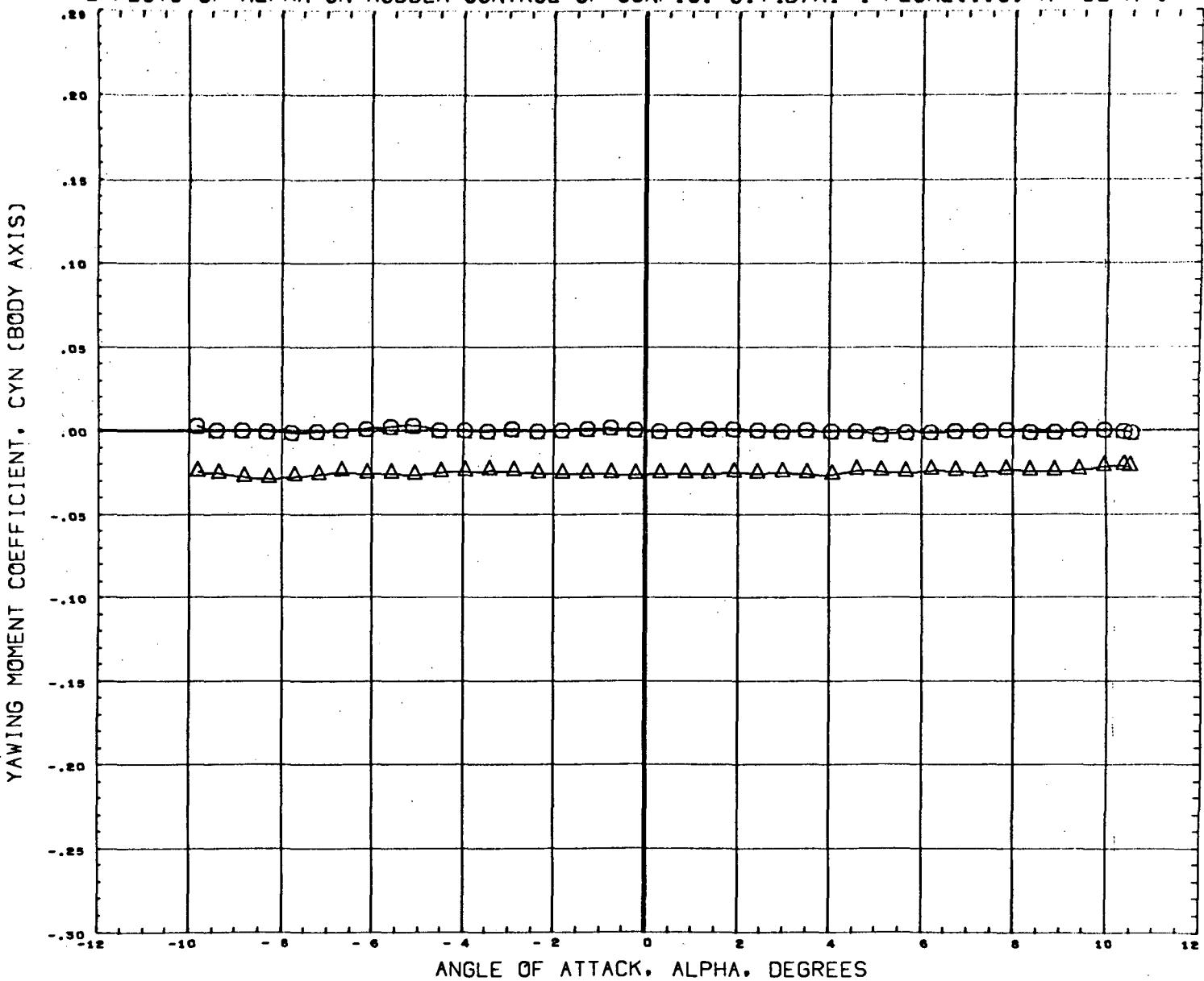


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7578)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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EFFECTS OF ALPHA ON RUDDER CONTROL OF CONFIG. O1T4B7A1-4+PLUME(1.5) AT BETA=0



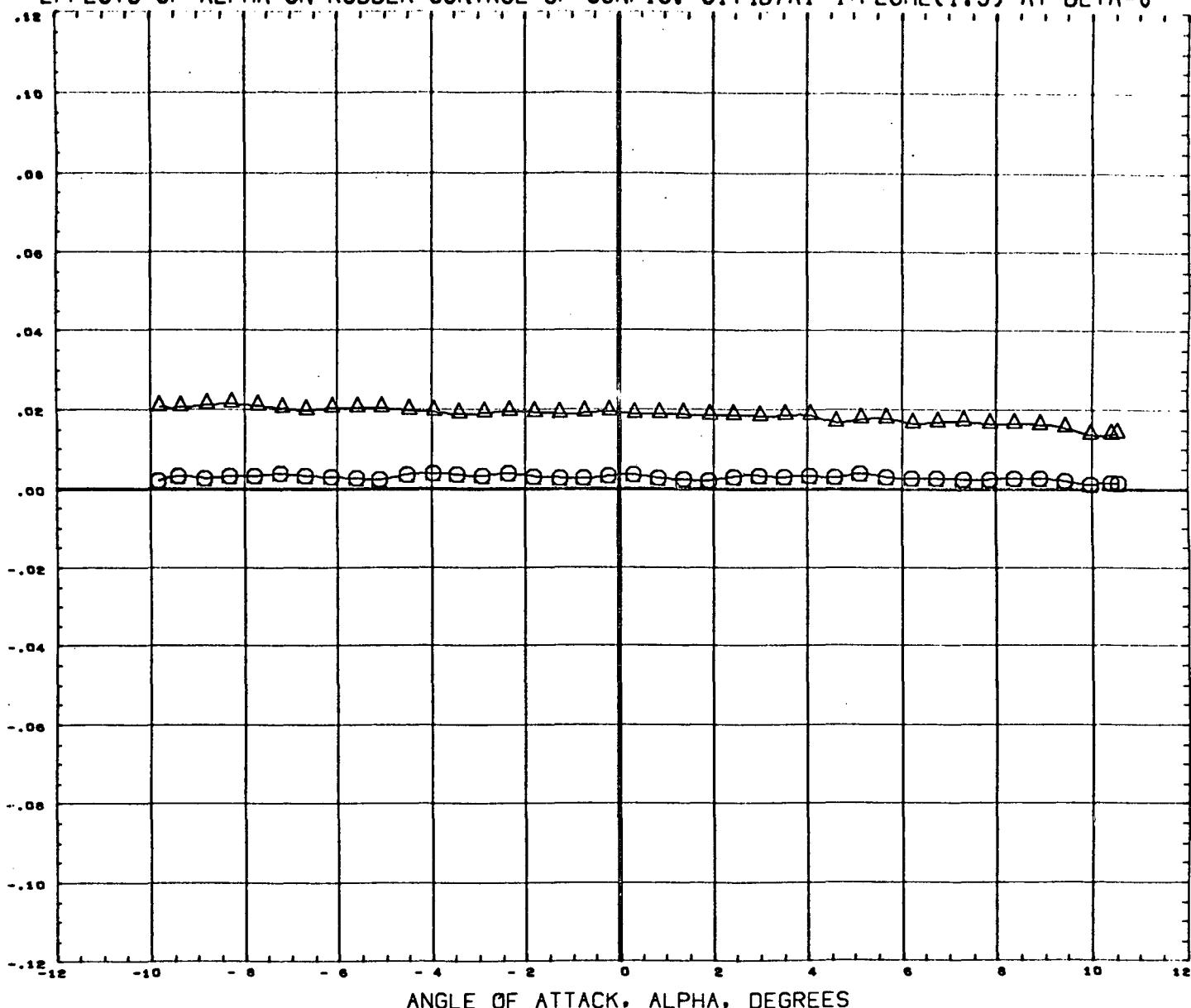
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION	
		(RD7574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	SREF 3155.3040	SQ.FT.
(RD7578)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	10.000	LREF 609.5004	IN.
						BREF 682.0004	IN.
						XMRP 557.0004	IN.
						YMRP 0.0000	IN.
						ZMRP 200.0004	IN.
						SCALE 0.0060	

MACH 1.51

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EFFECTS OF ALPHA ON RUDDER CONTROL OF CONFIG. O1T4B7A1-4+PLUME(1.5) AT BETA=0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

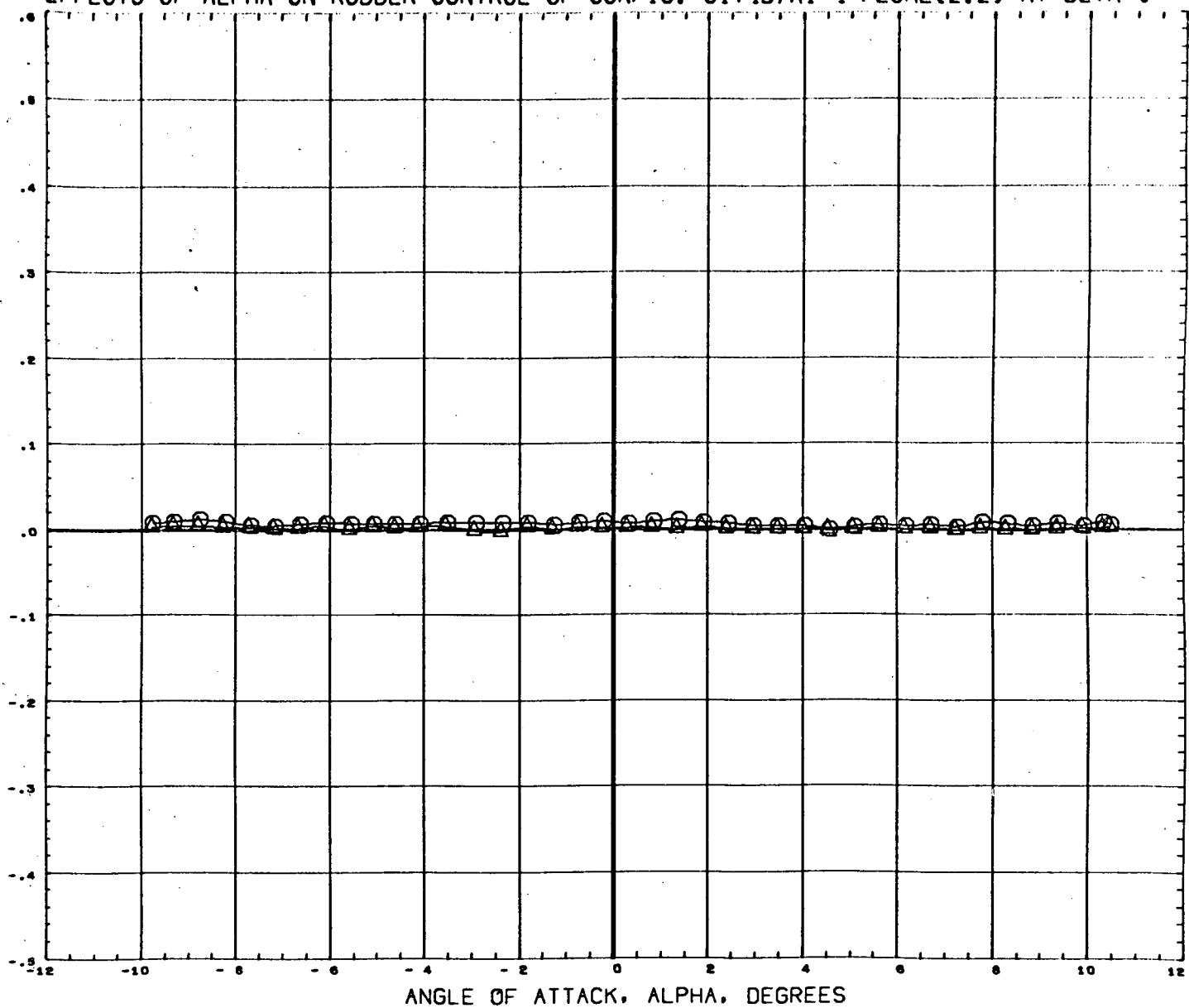
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7574)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7576)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(1.5)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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EFFECTS OF ALPHA ON RUDDER CONTROL OF CONFIG. O1T4B7A1-4+PLUME(2.2) AT BETA=0

LATERAL FORCE COEFFICIENT, CY



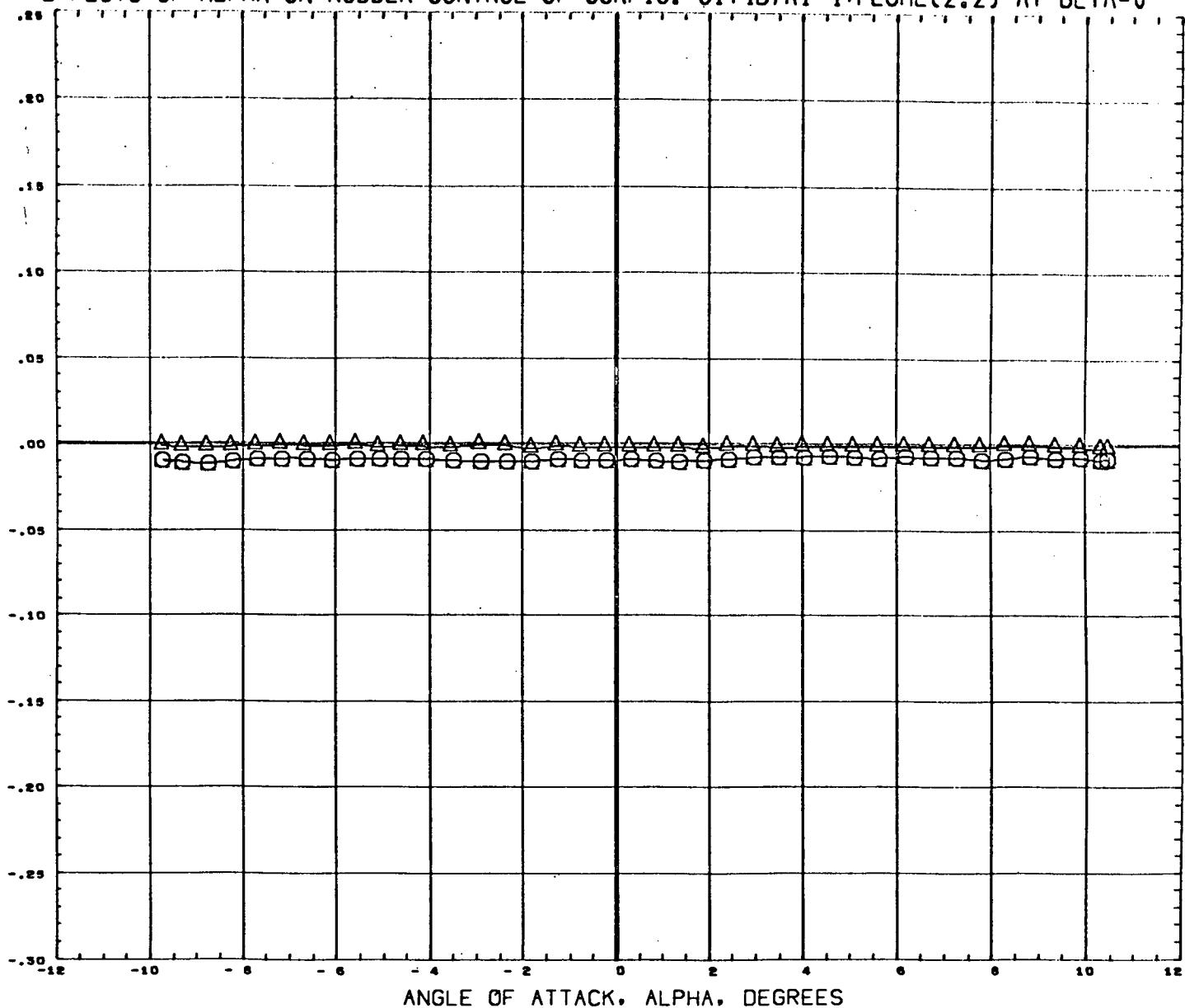
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7580)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7584)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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EFFECTS OF ALPHA ON RUDDER CONTROL OF CONFIG. O1T4B7A1-4+PLUME(2.2) AT BETA=0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

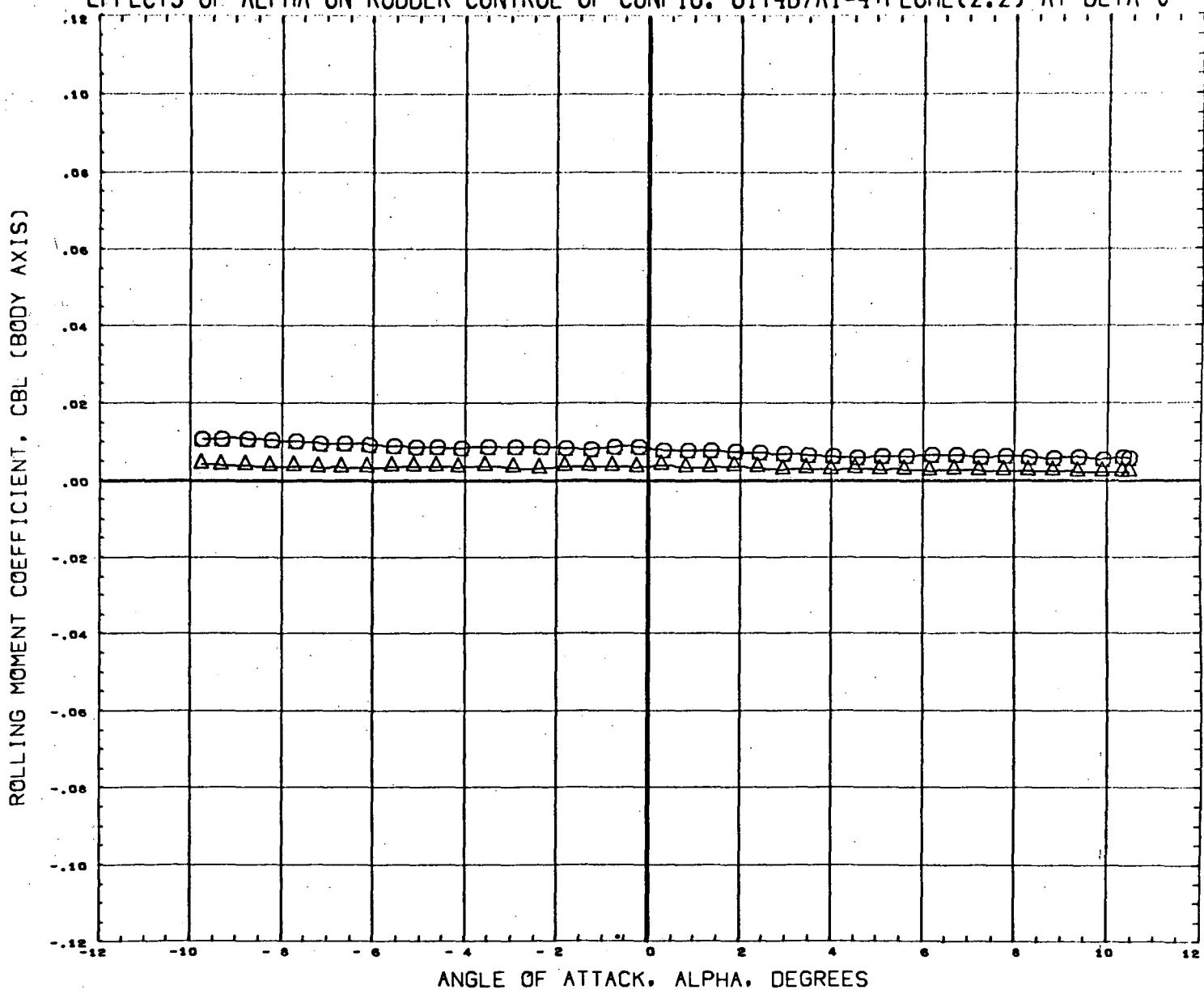


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7580) Q	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7584) Q	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

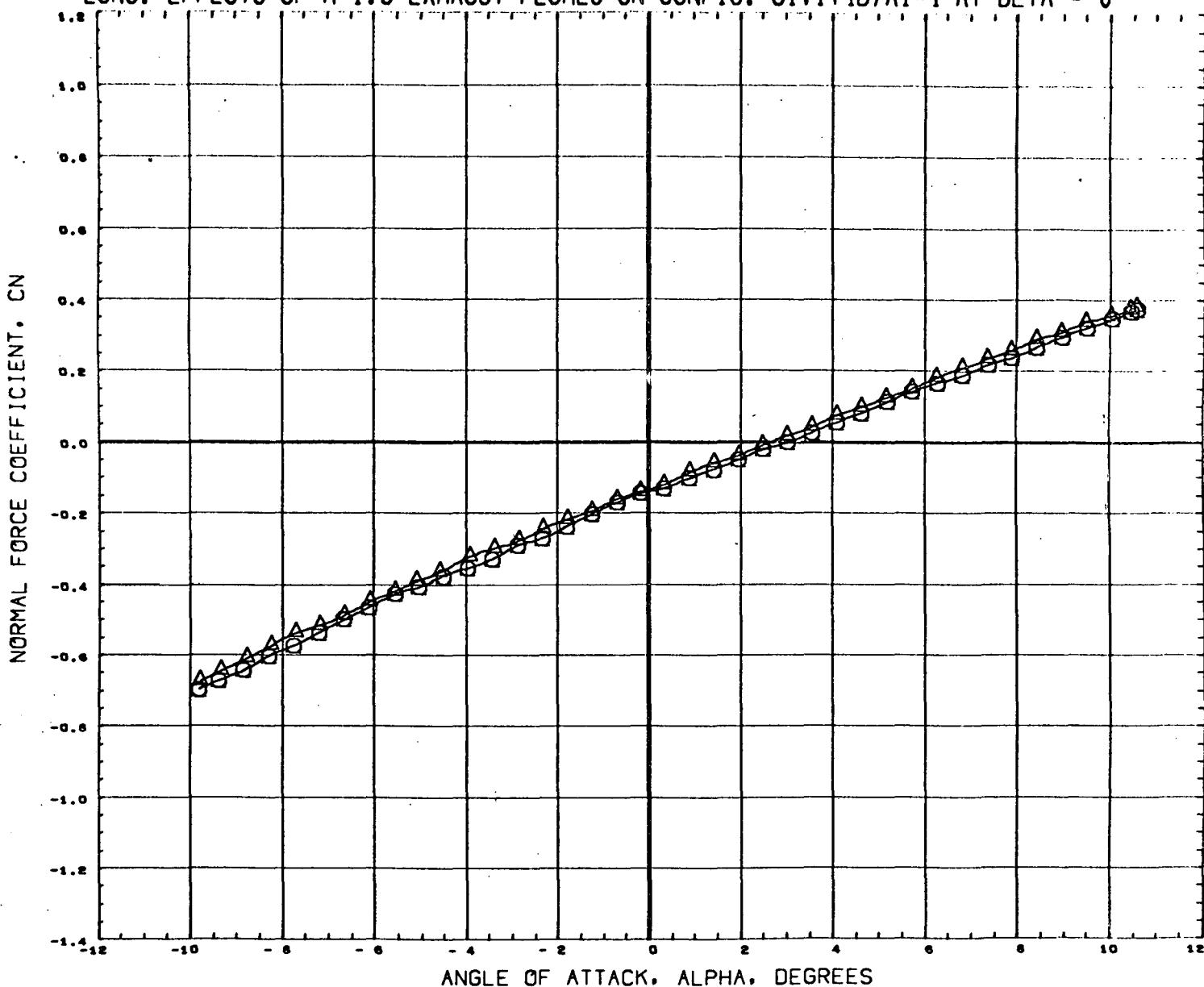
PAGE 216

EFFECTS OF ALPHA ON RUDDER CONTROL OF CONFIG. O1T4B7A1-4+PLUME(2.2) AT BETA=0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7580)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7584)	MDAC S-222 COMPOSITE(T-CG) O1T4B7A1-4+PLUME(2.2)	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
						BREF 682.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

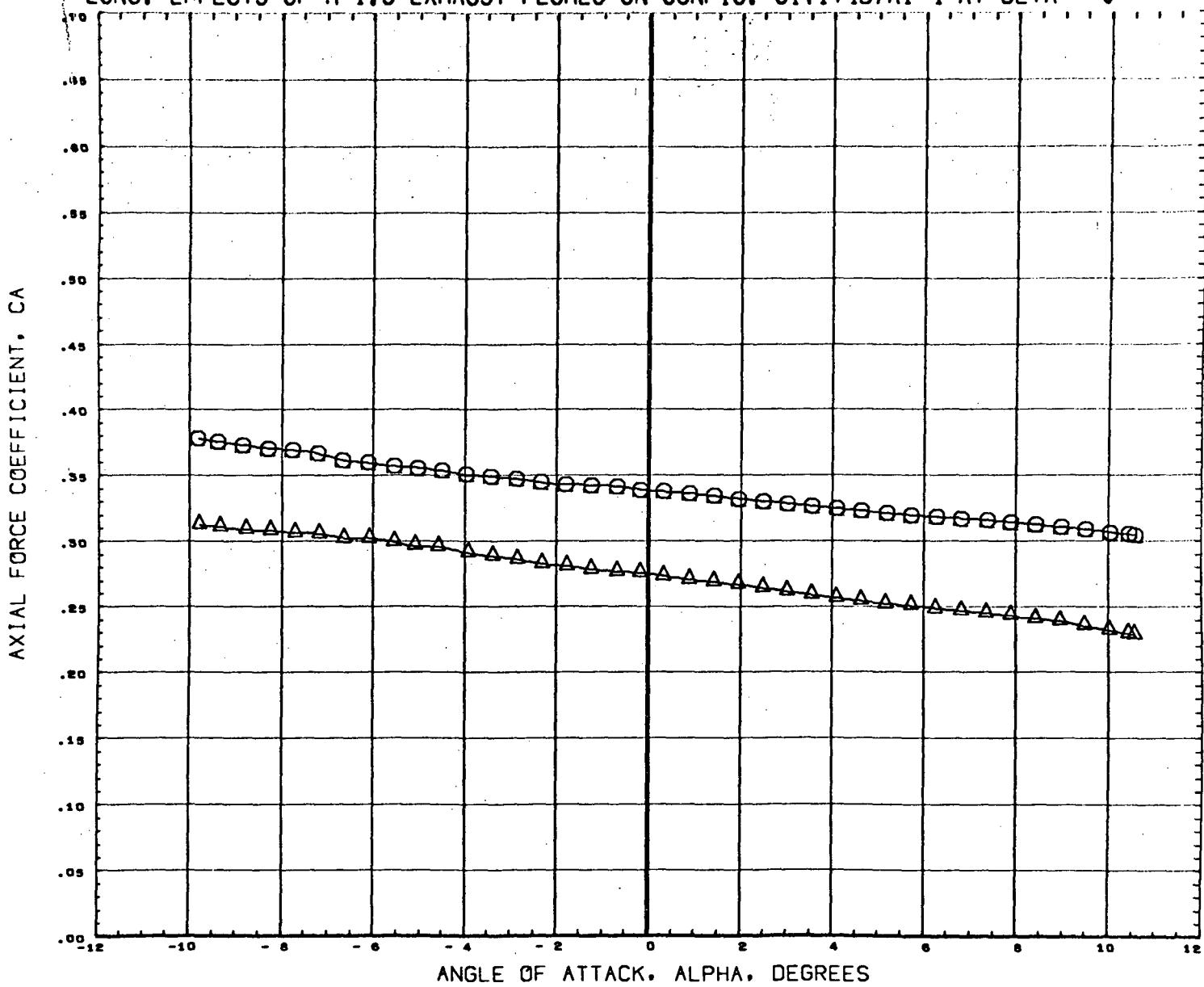


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

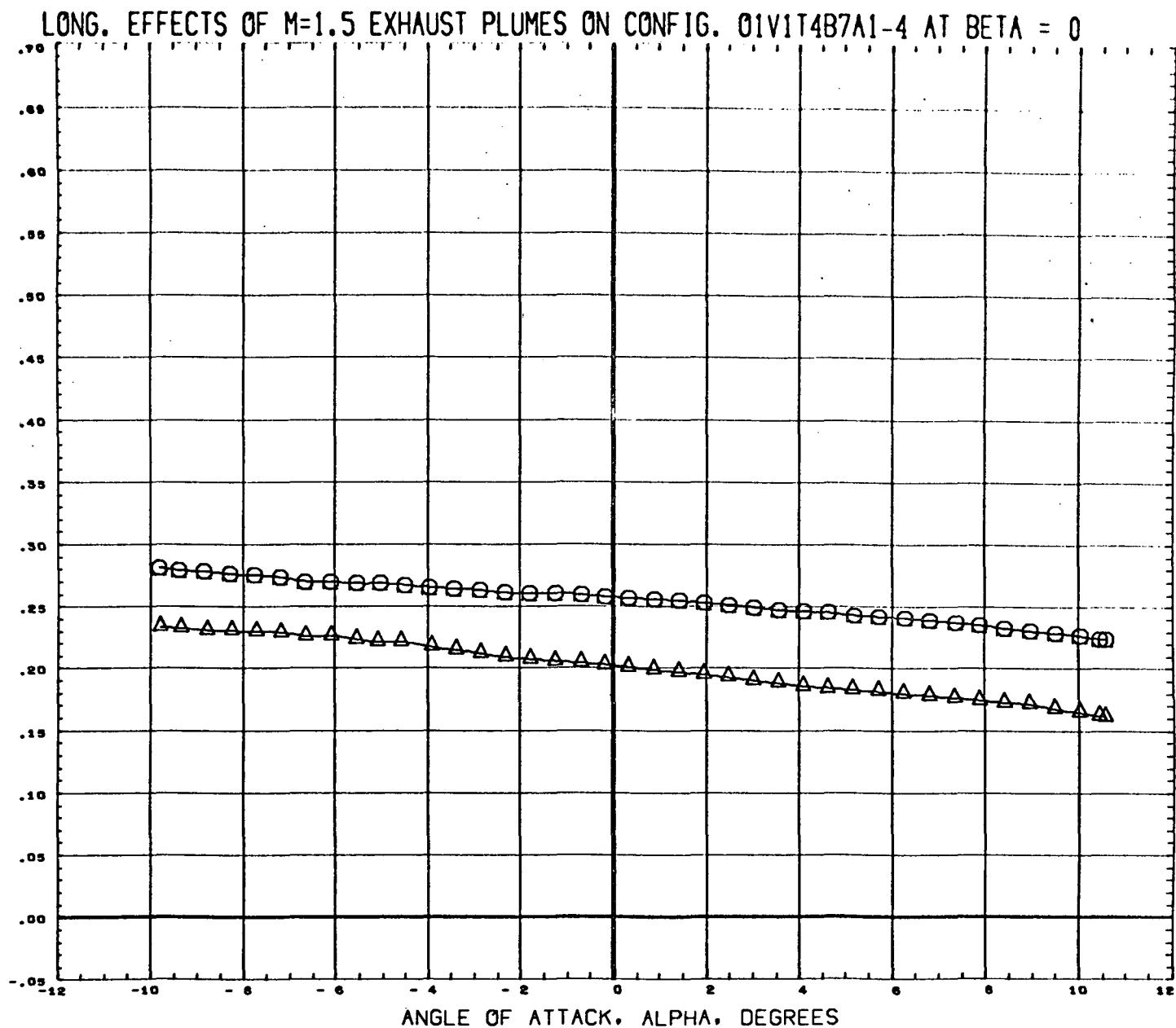


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.3004 IN.
						BREF 682.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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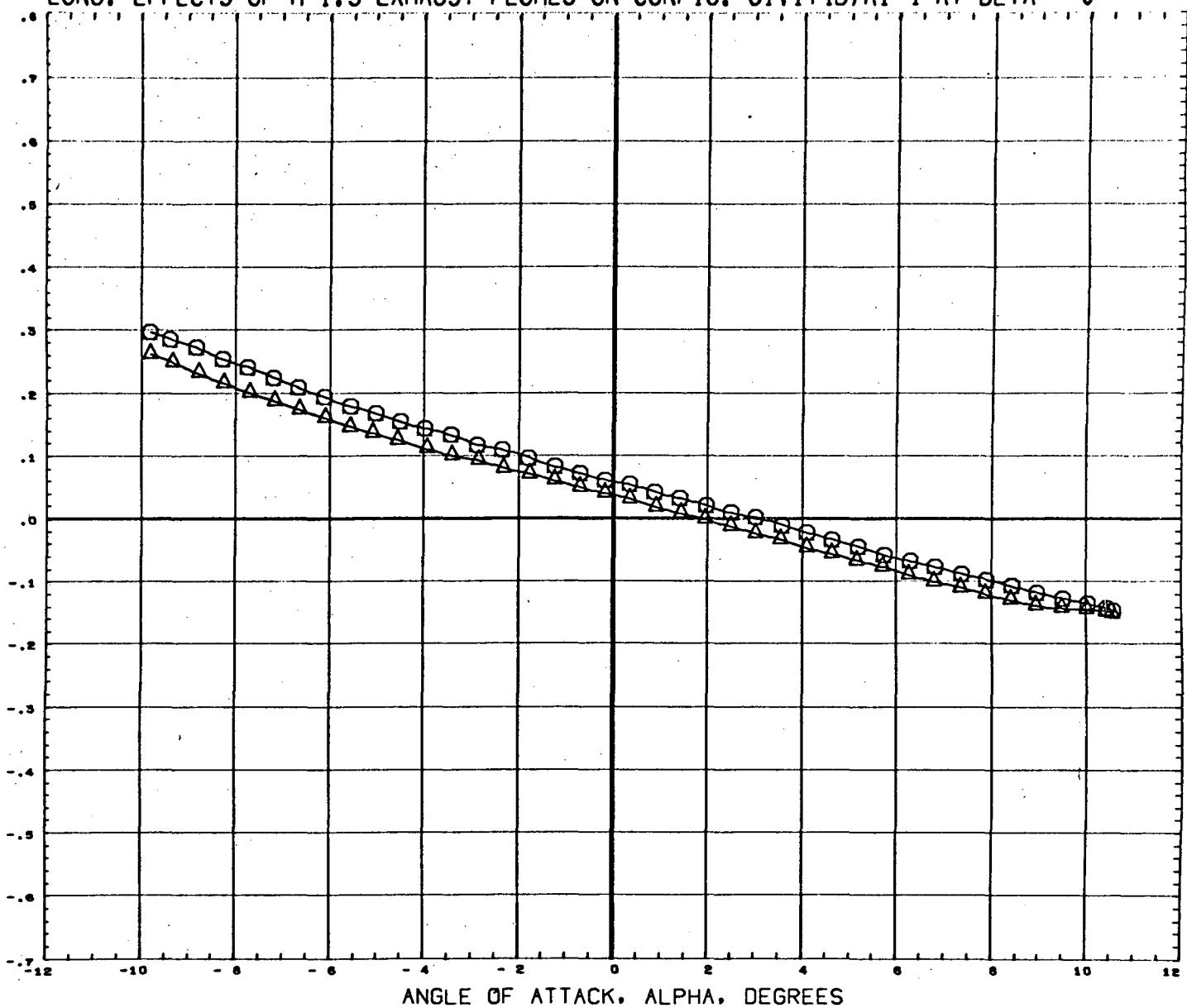
FOREBODY AXIAL FORCE COEFFICIENT. CAF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

PITCHING MOMENT COEFFICIENT, CLM

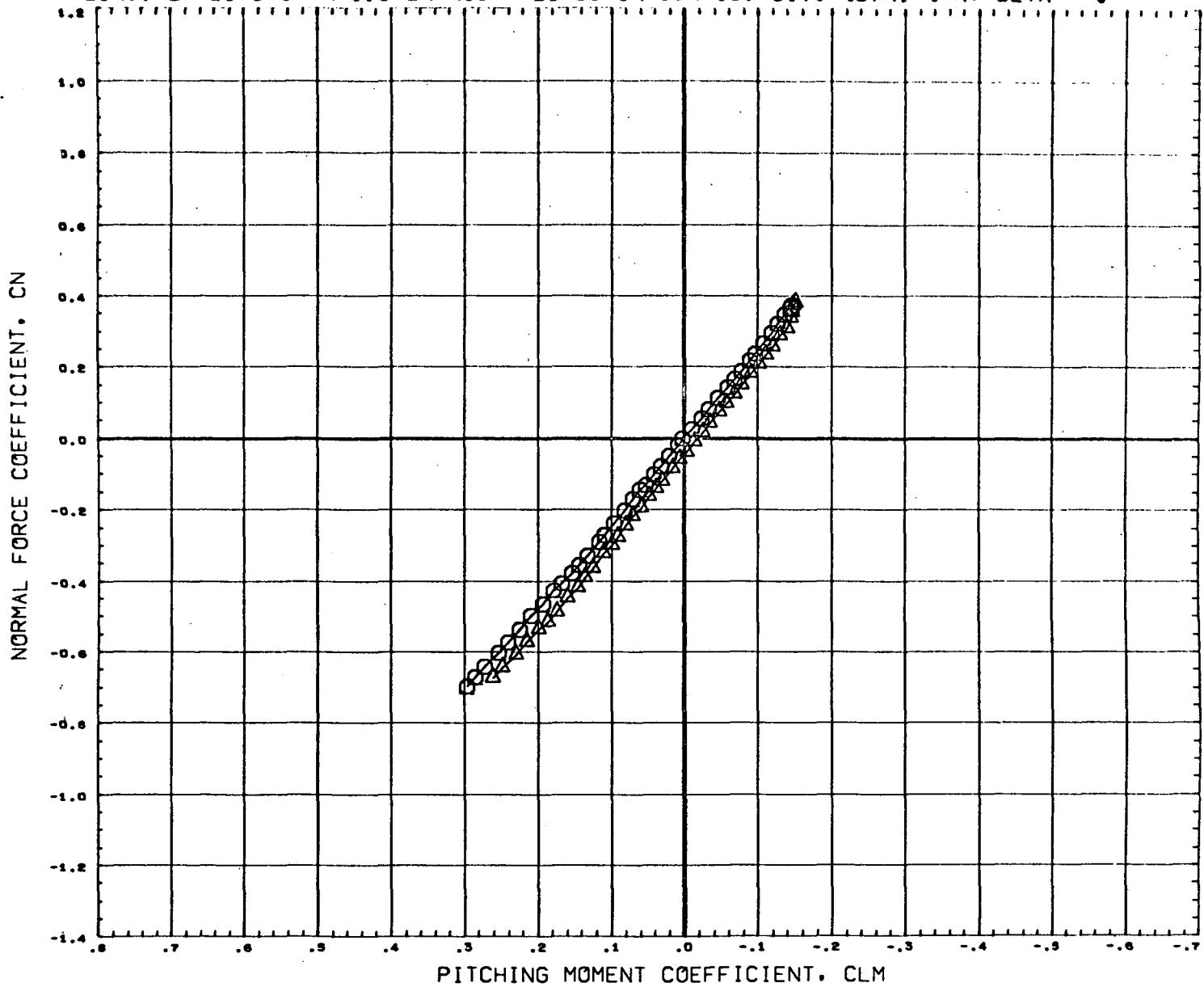


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	○	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75A1)	△	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

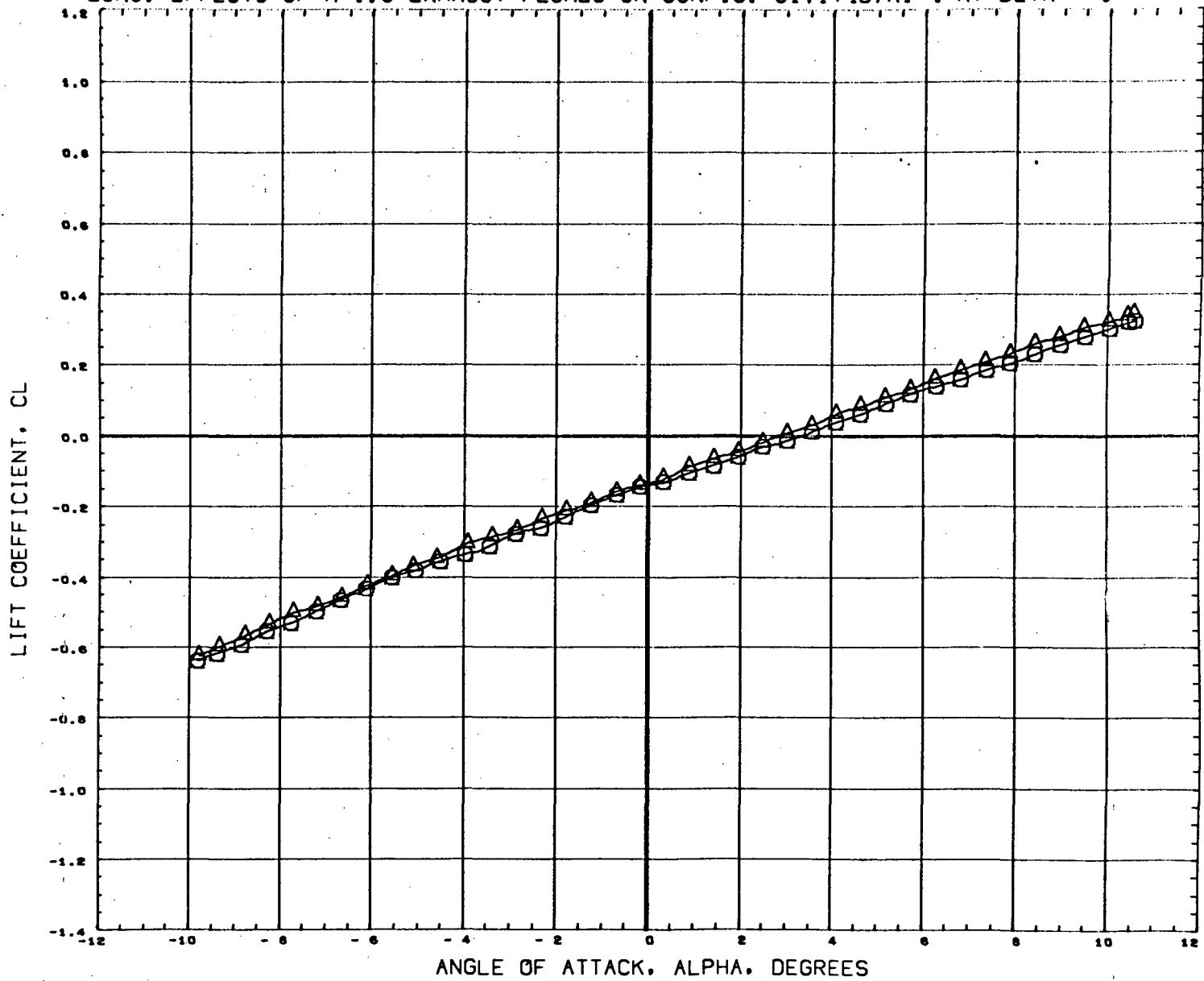


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7592)	Q	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75A1)	A	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0



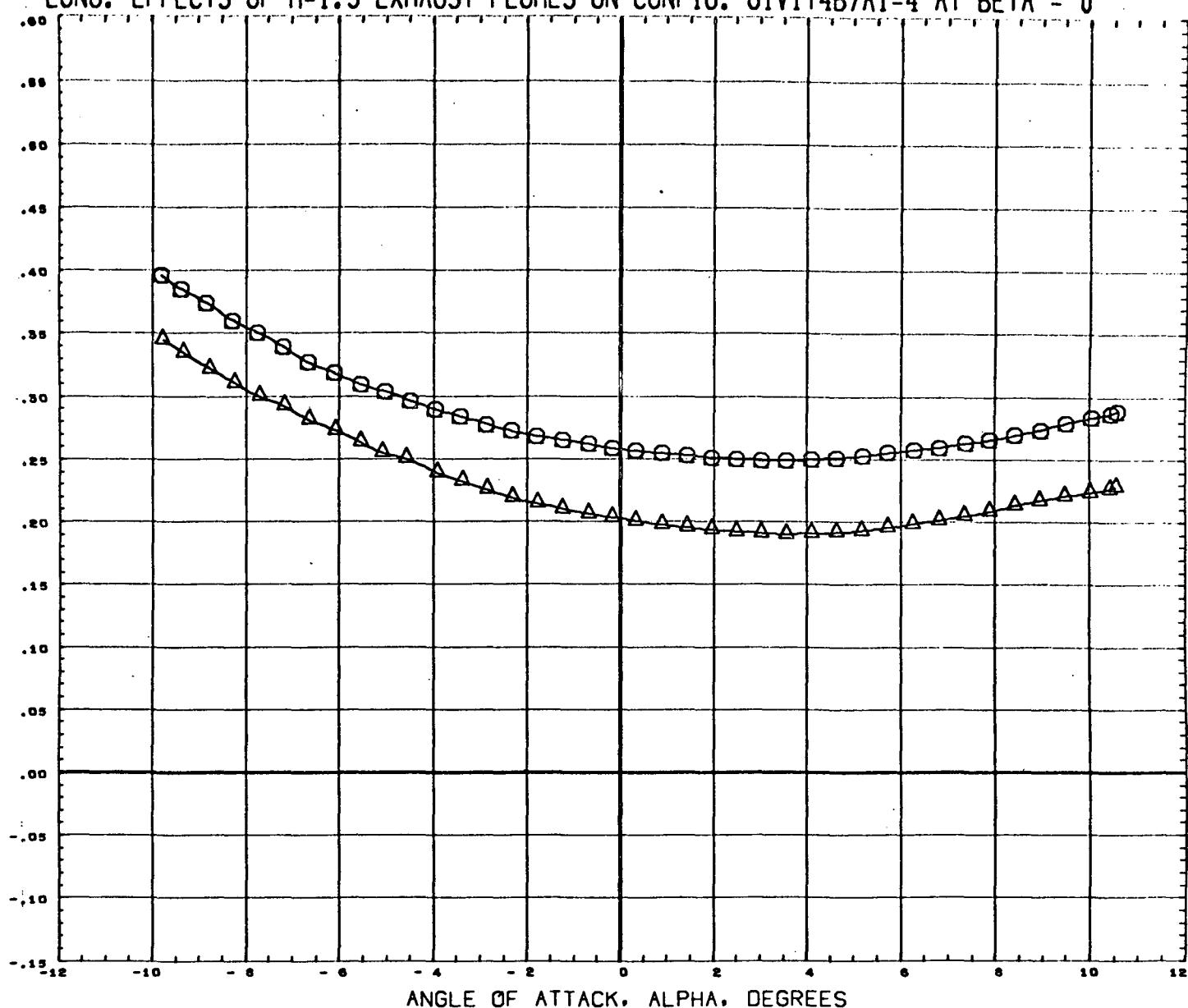
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
(CD7592)	○	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	5155.3040	SD.FT.
(CD75A1)	△	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
							BREF	882.0004	IN.
							XMRP	957.0004	IN.
							YMRP	0.0000	IN.
							ZMRP	200.0004	IN.
							SCALE	0.0060	

MACH 1.51

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LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. 01V1T4B7A1-4 AT BETA = 0

FOREBODY DRAG COEFFICIENT, CDF

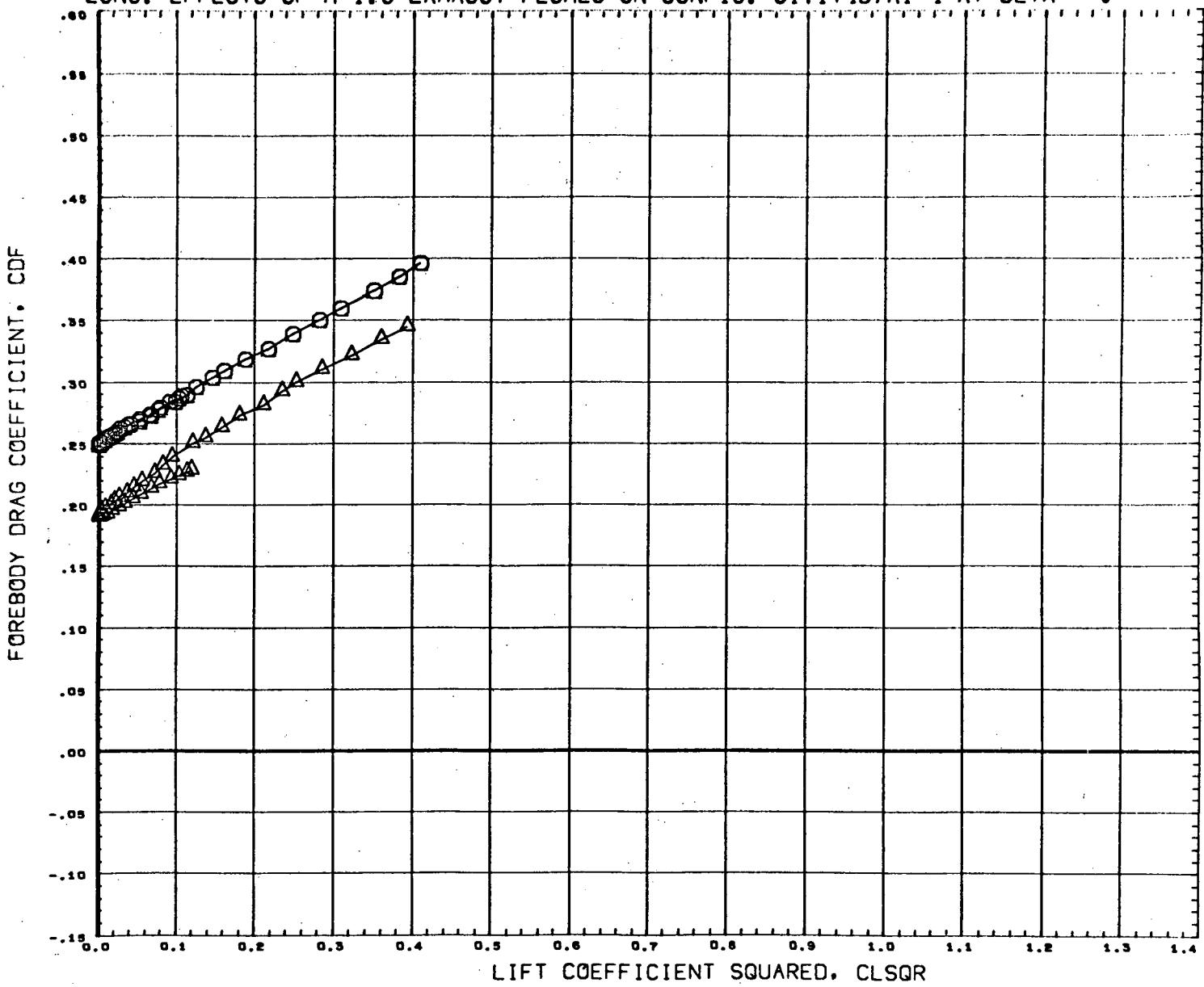


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

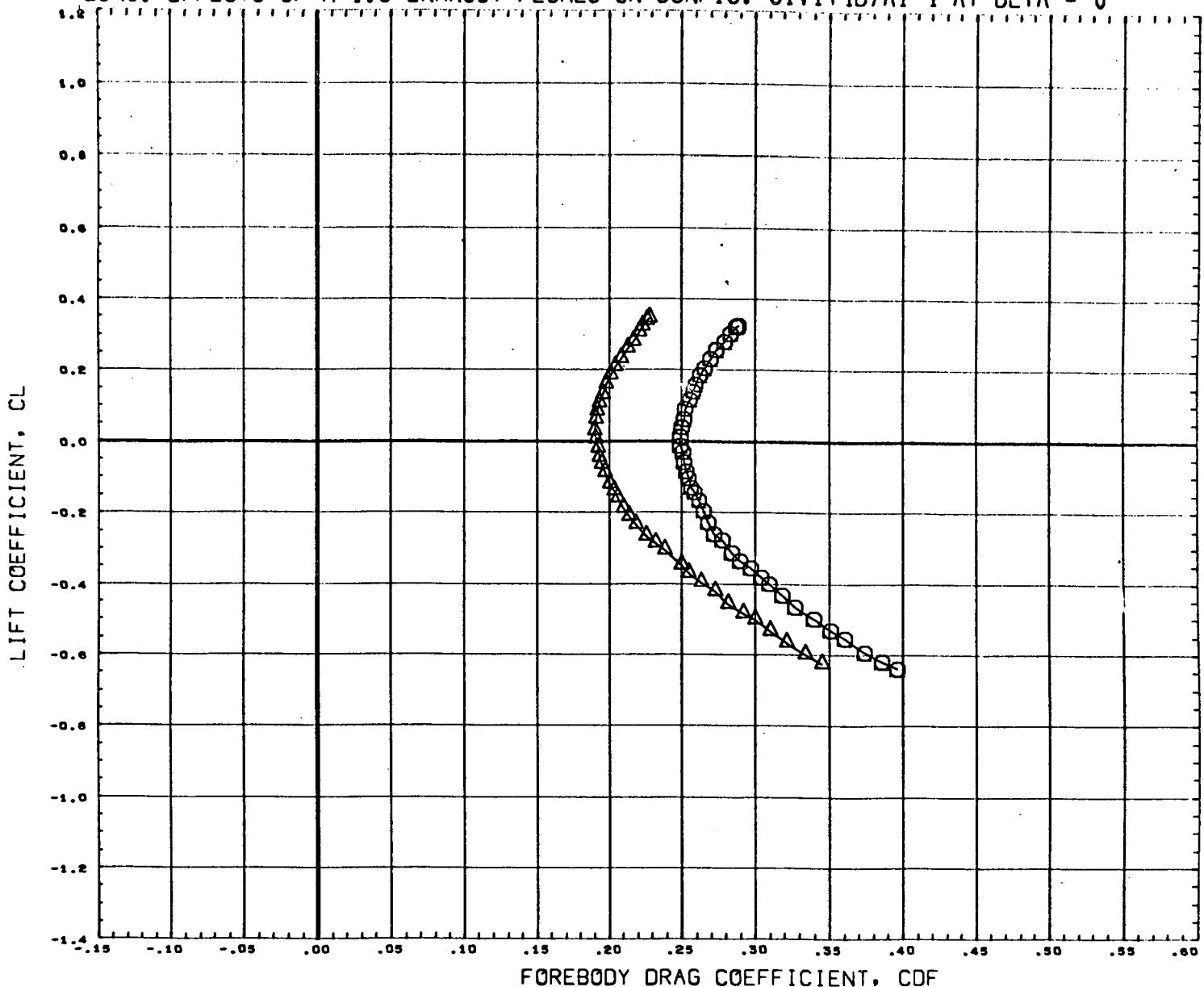


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
(CD7592)	○	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75A1)	△	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. 01V1T4B7A1-4 AT BETA = 0



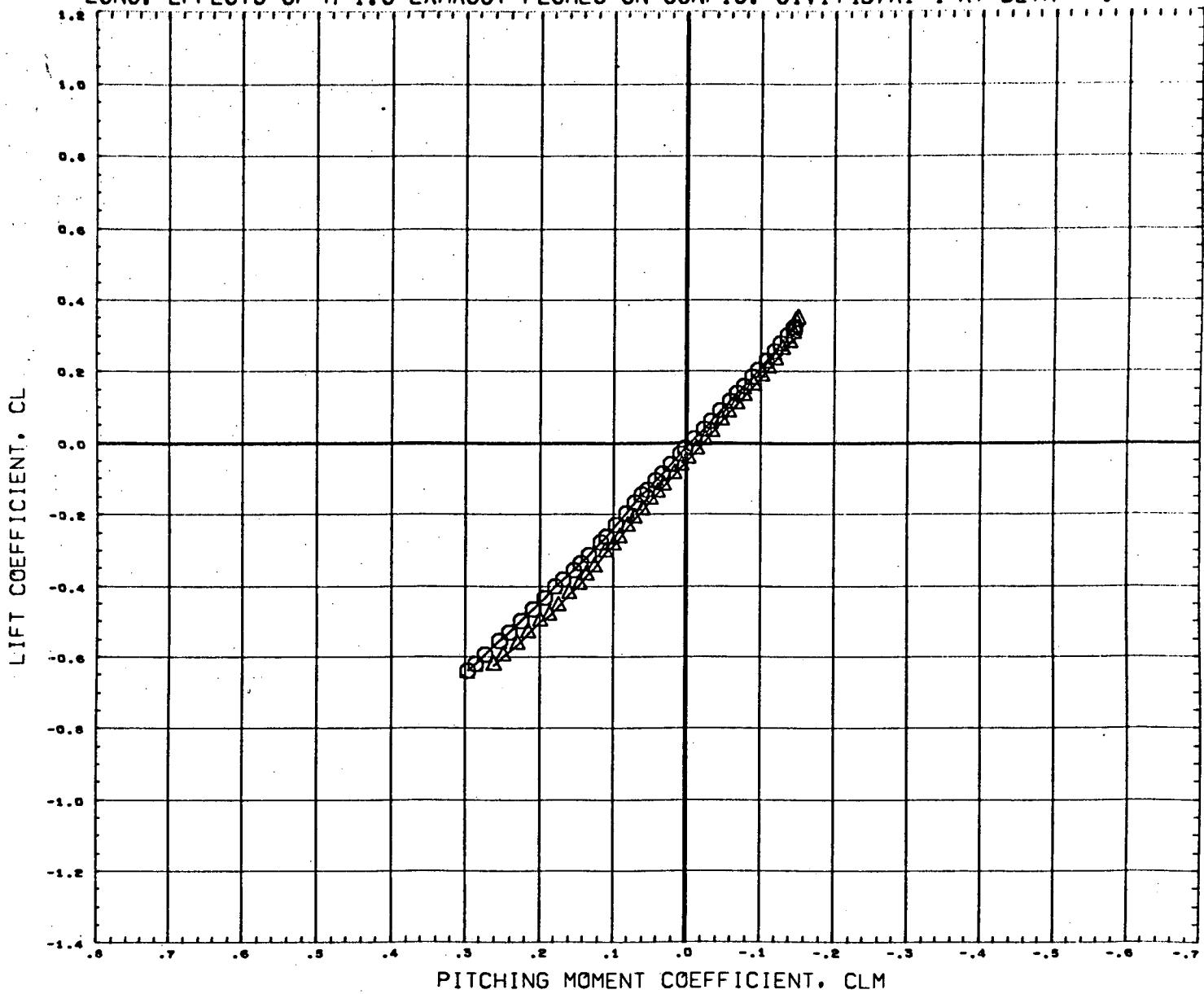
FOREBODY DRAG COEFFICIENT, CDF

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT. LREF 609.5004 IN.
(CD7591)	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4+PLU(1,3)	0.000	0.000	0.000	0.000	BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONG. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

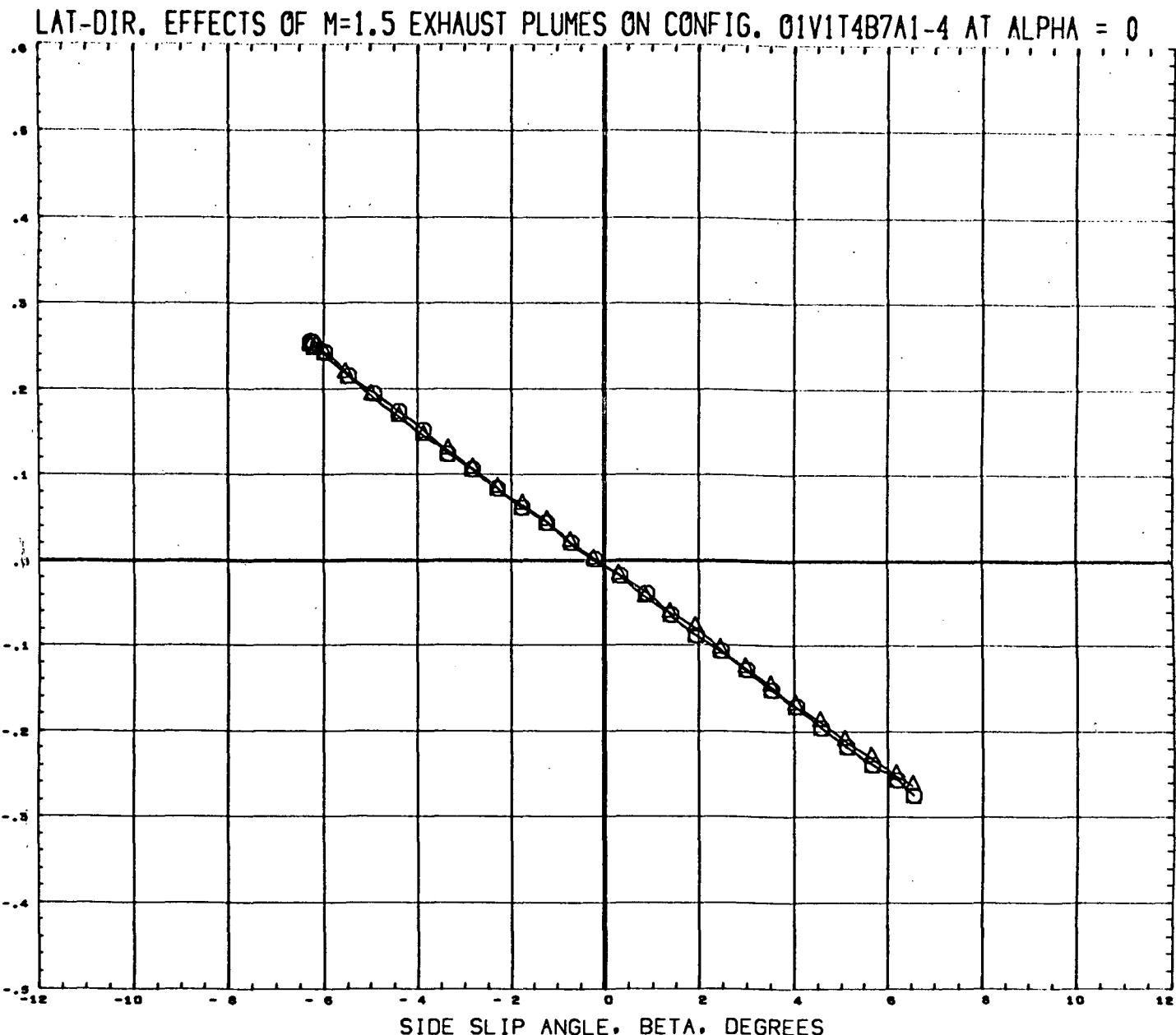


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	□	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75A1)	△	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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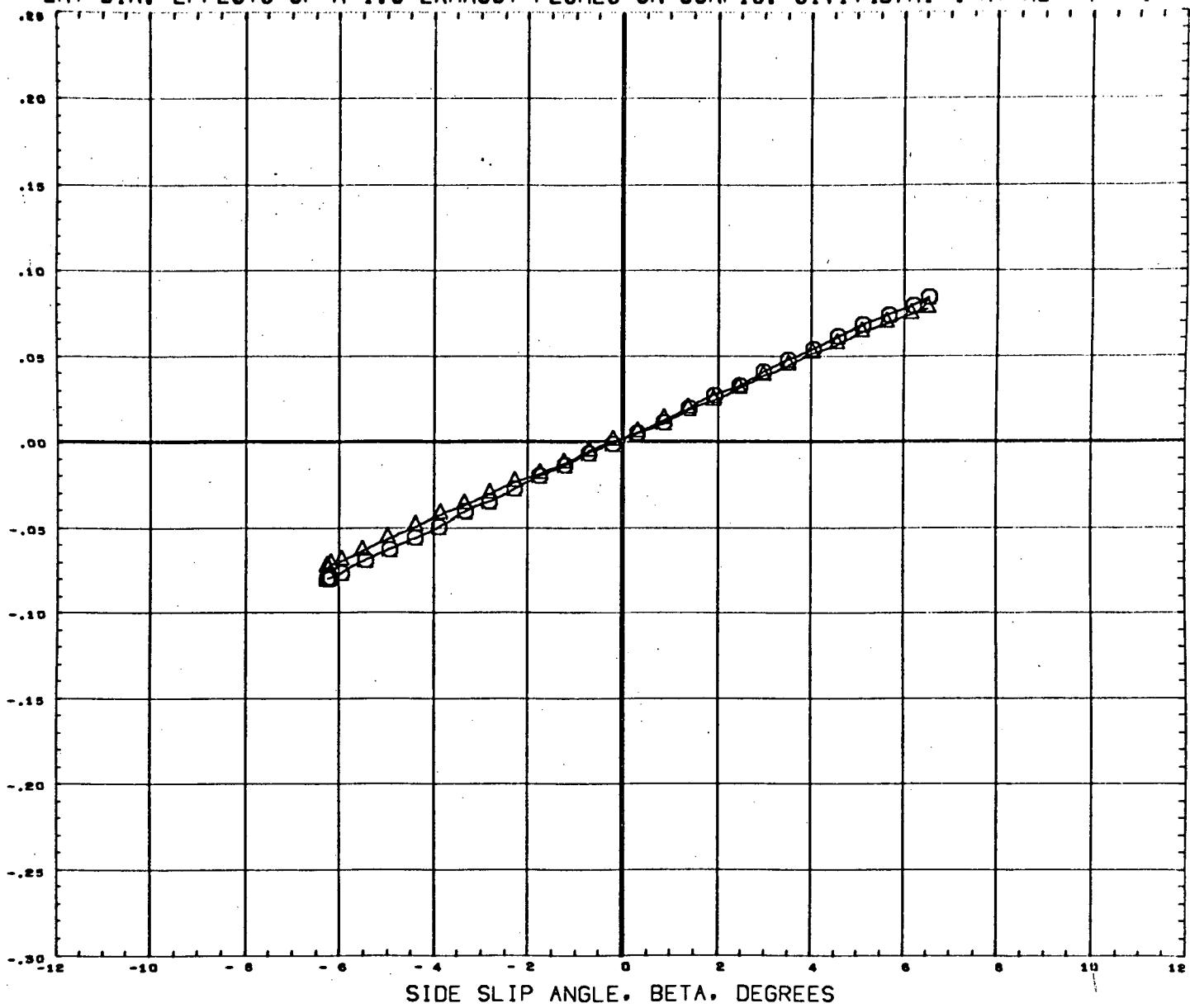
LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 682.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

LAT-DIR. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT ALPHA = 0

YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7593) MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4
 (RD75A2) MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)

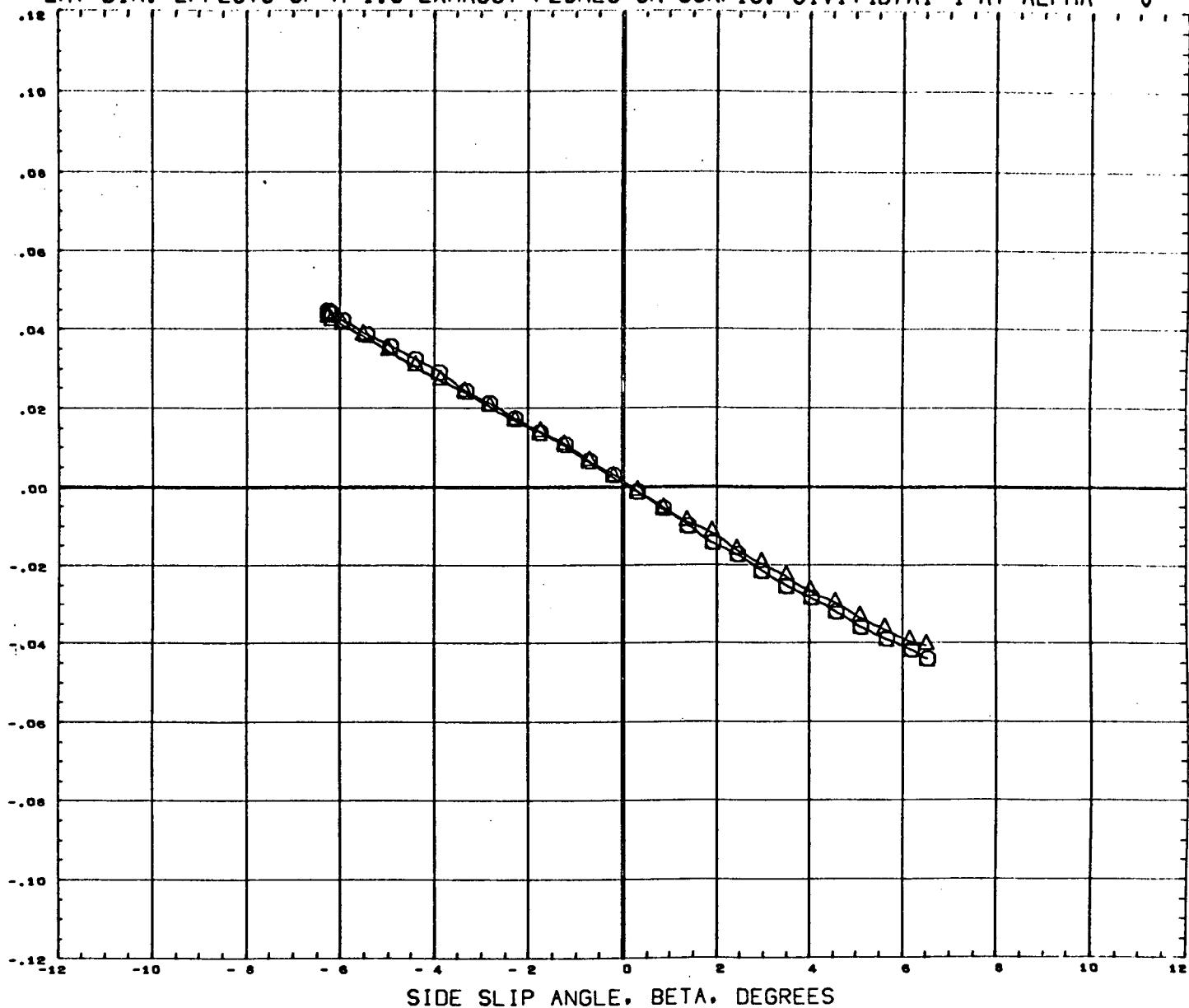
ALPHA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.0004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.51

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LAT-DIR. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. 01V1T4B7A1-4 AT ALPHA = 0

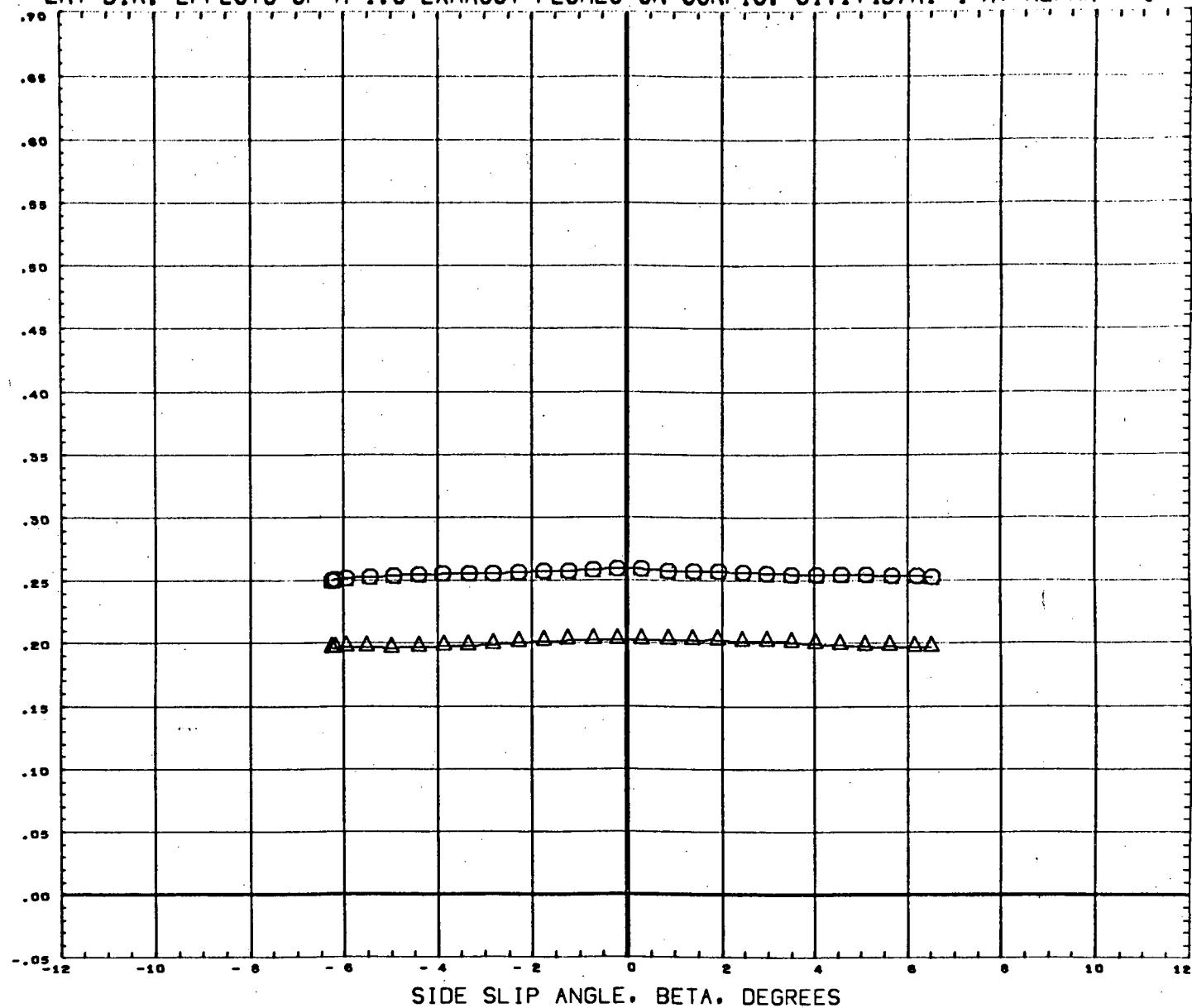
ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7503)	○	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD75A2)	△	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

FOREBODY AXIAL FORCE COEFFICIENT. CAF

LAT-DIR. EFFECTS OF M=1.5 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT ALPHA = 0



SIDE SLIP ANGLE, BETA, DEGREES

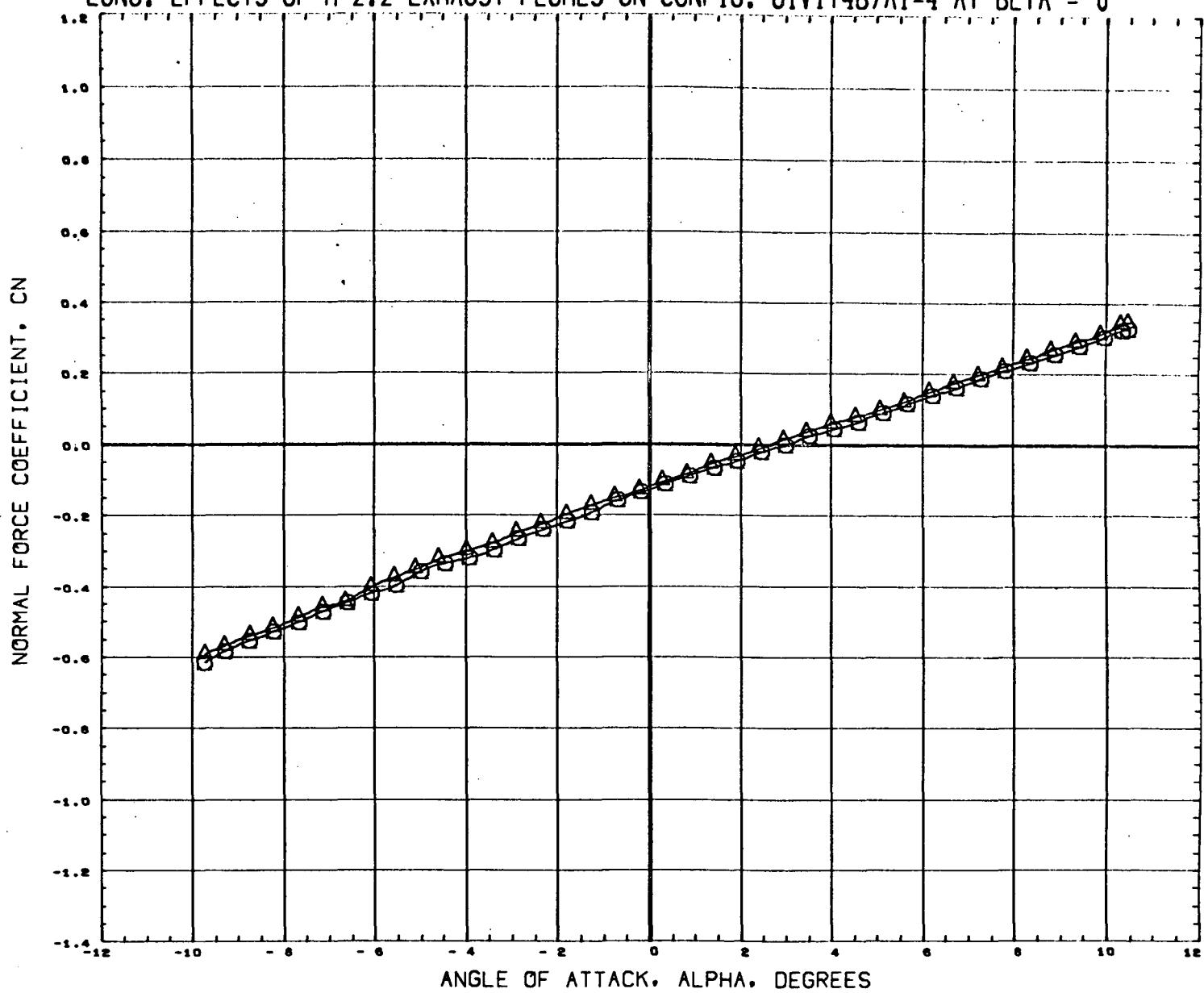
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD75A2)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	LREF 609.9004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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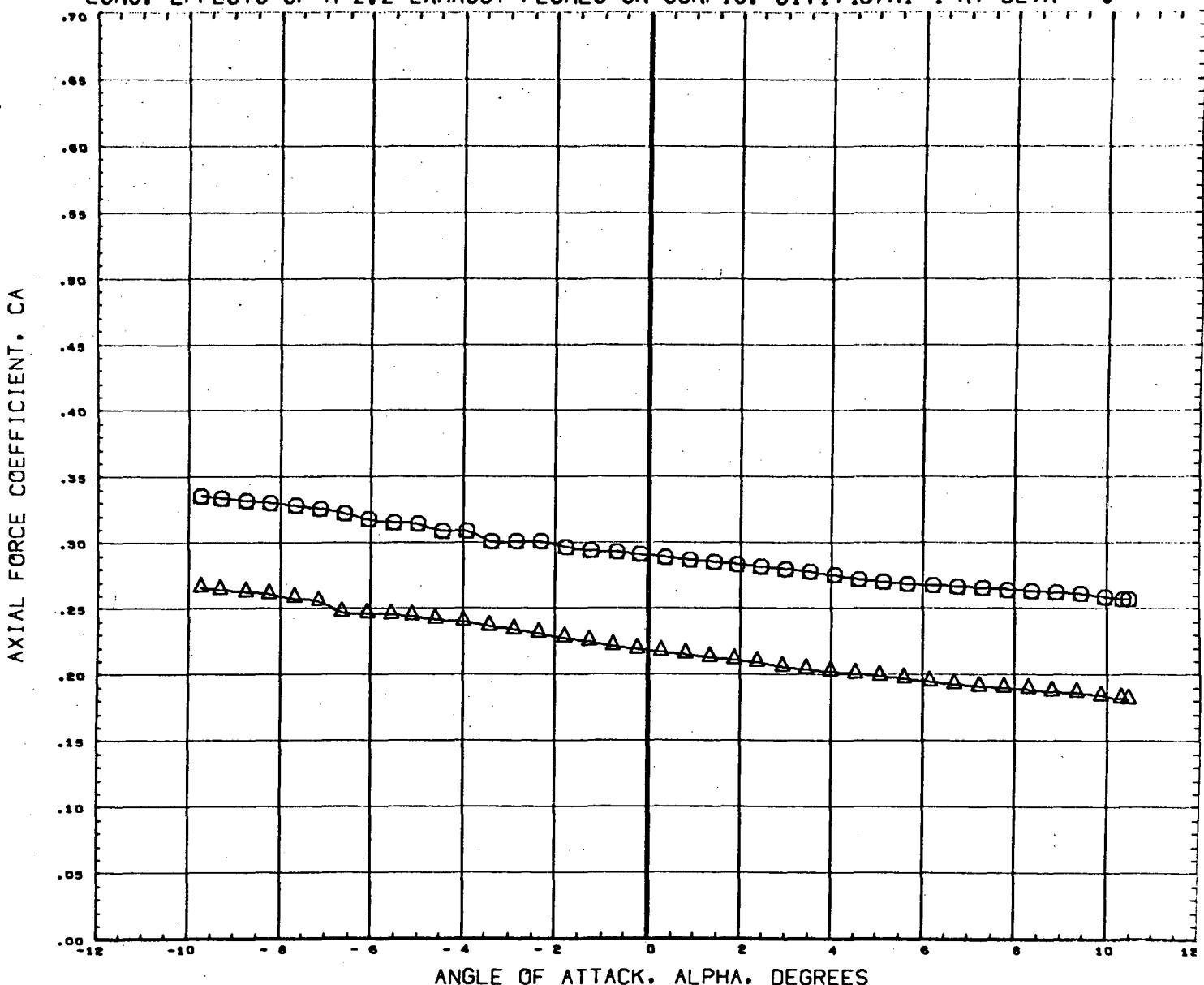
A-3

LONG. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75B1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 682.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

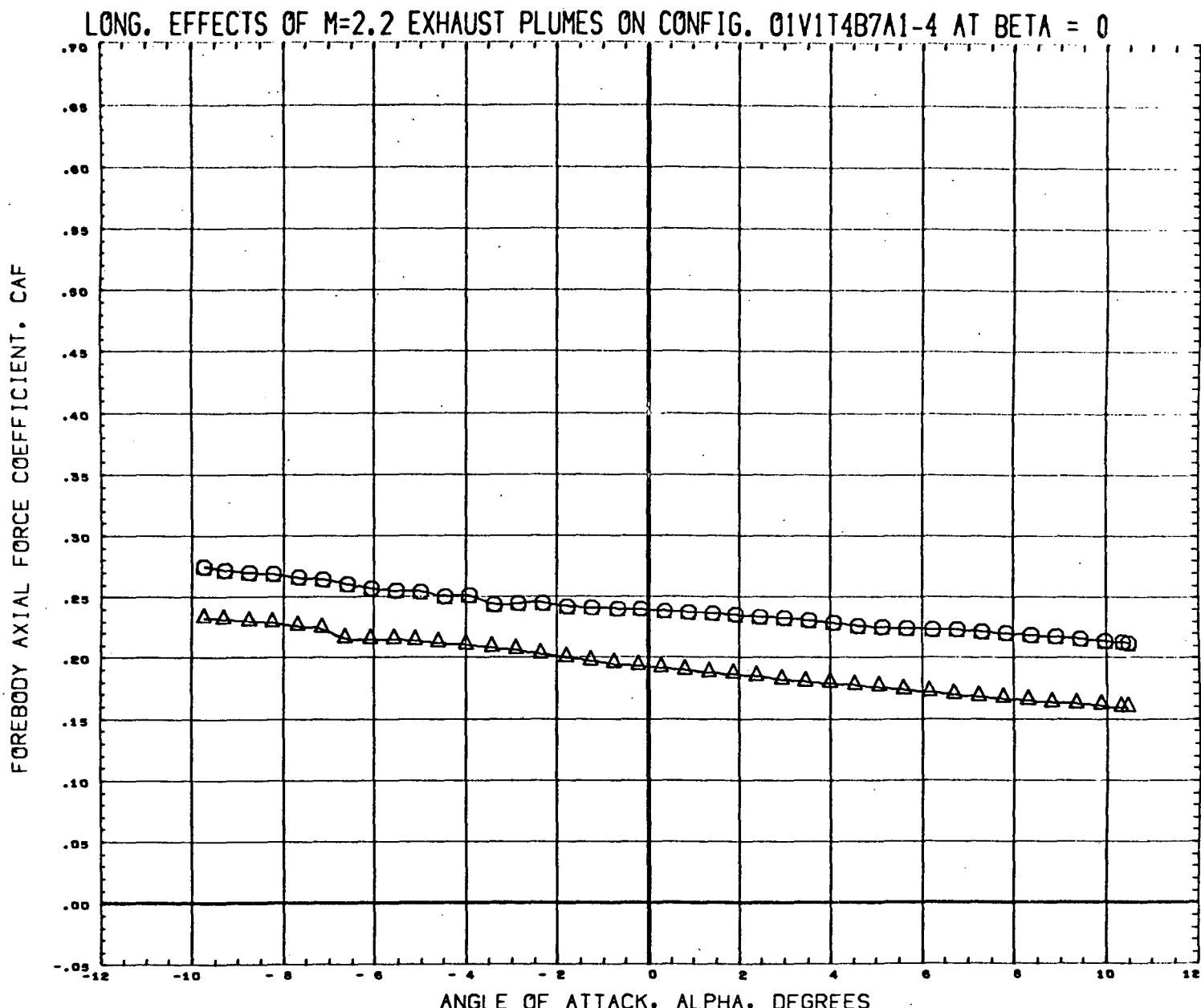
LONG. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD75B1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

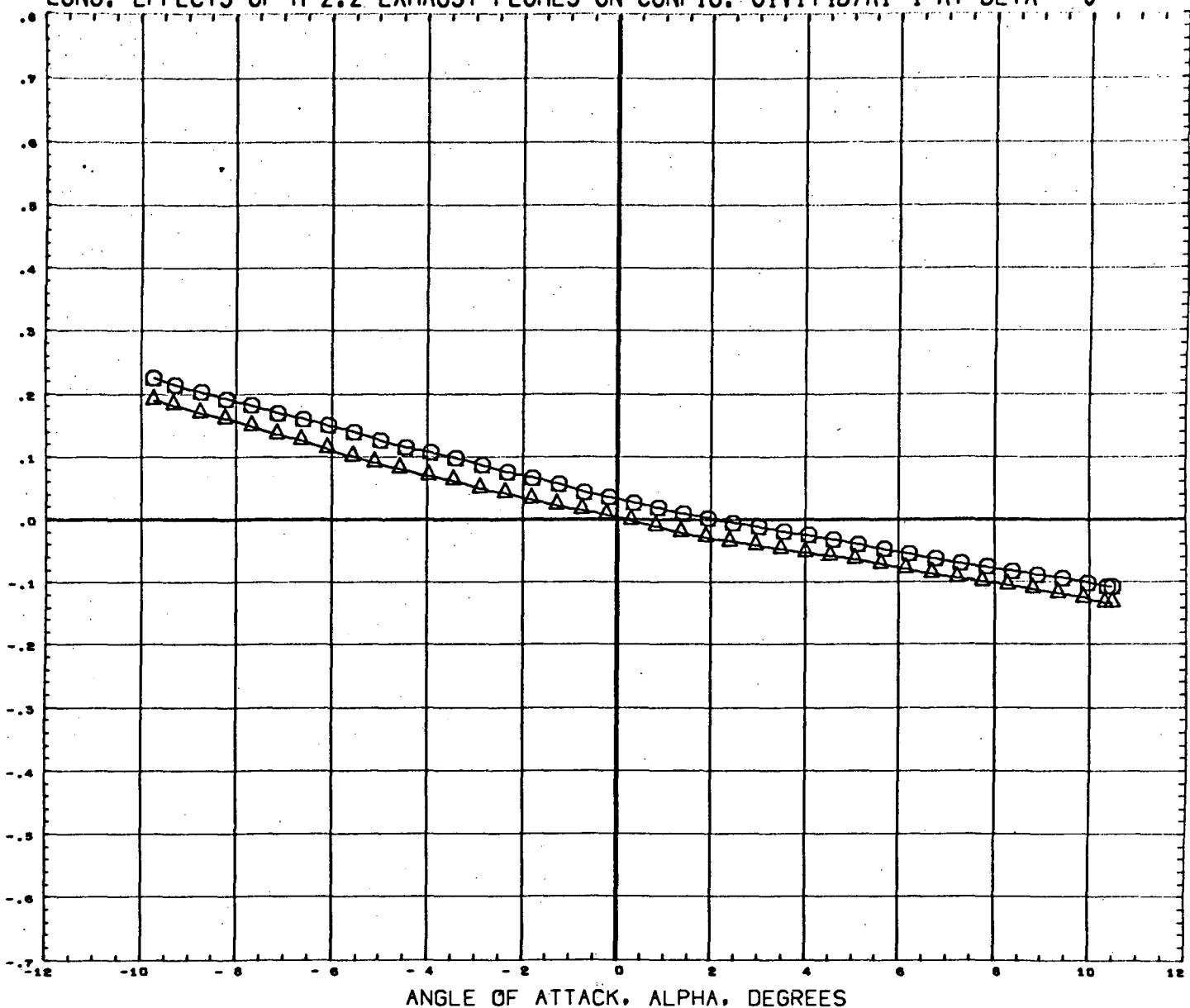
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

LONG. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

PITCHING MOMENT COEFFICIENT, CLM



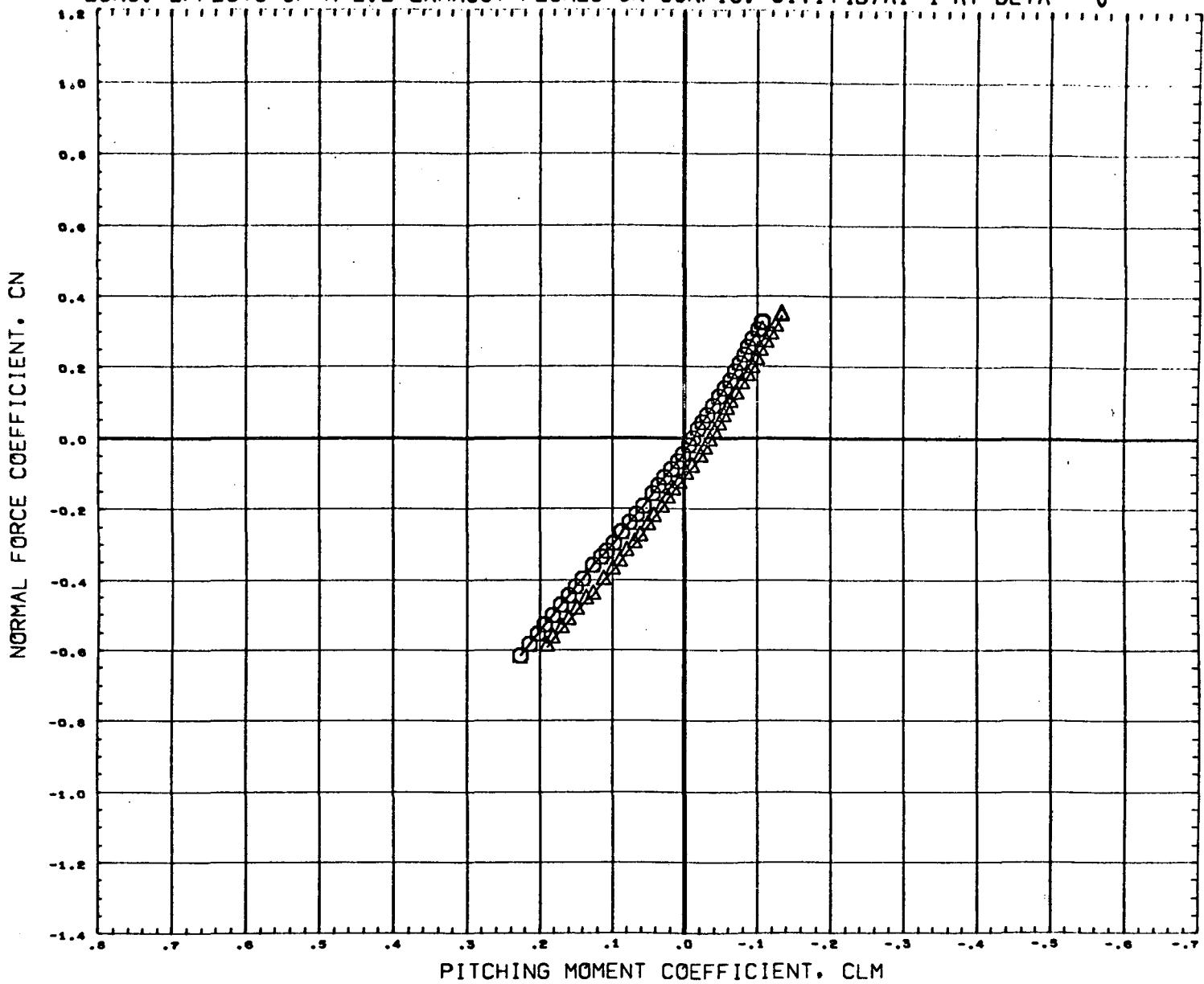
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 662.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONG. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

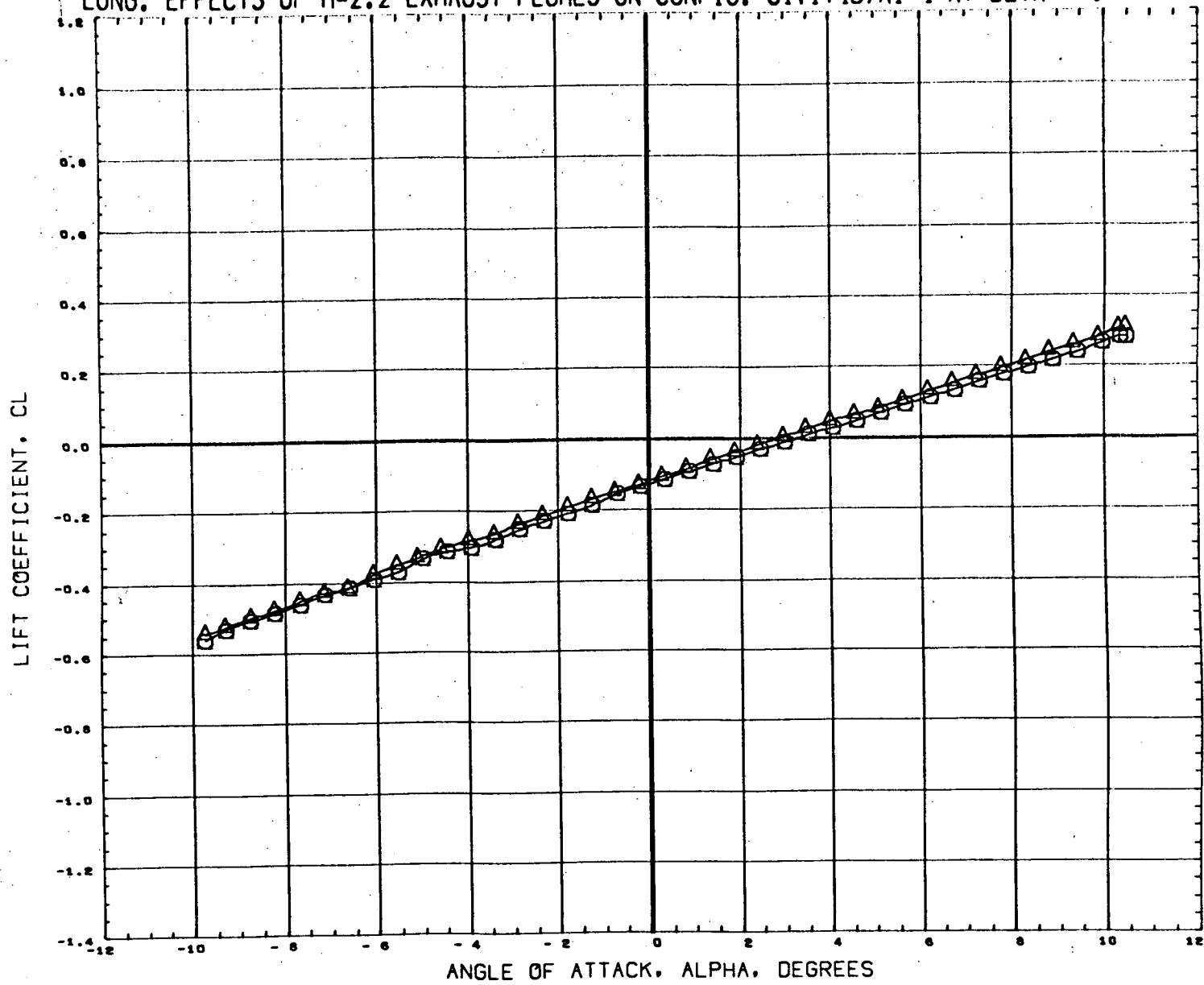


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 662.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

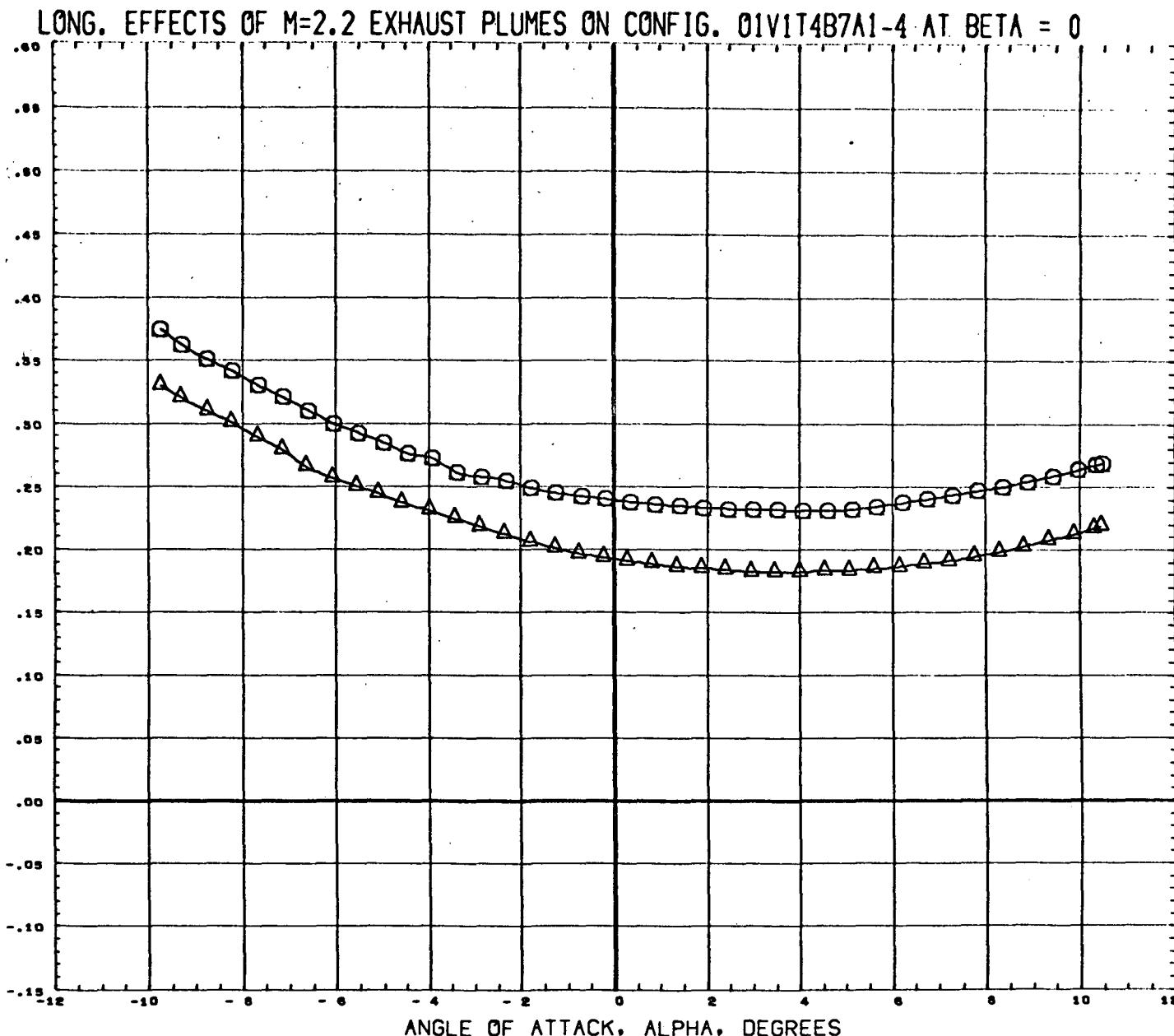
PAGE 236

LONG. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION			BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION	
	(CD7592)	(W)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4					0.000	0.000
(CD7581)	(W)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.	
							BREF	682.0004 IN.	
							XMRP	557.0004 IN.	
							YMRP	0.0000 IN.	
							ZMRP	200.0004 IN.	
							SCALE	0.0060	

FOREBODY DRAG COEFFICIENT, CDF

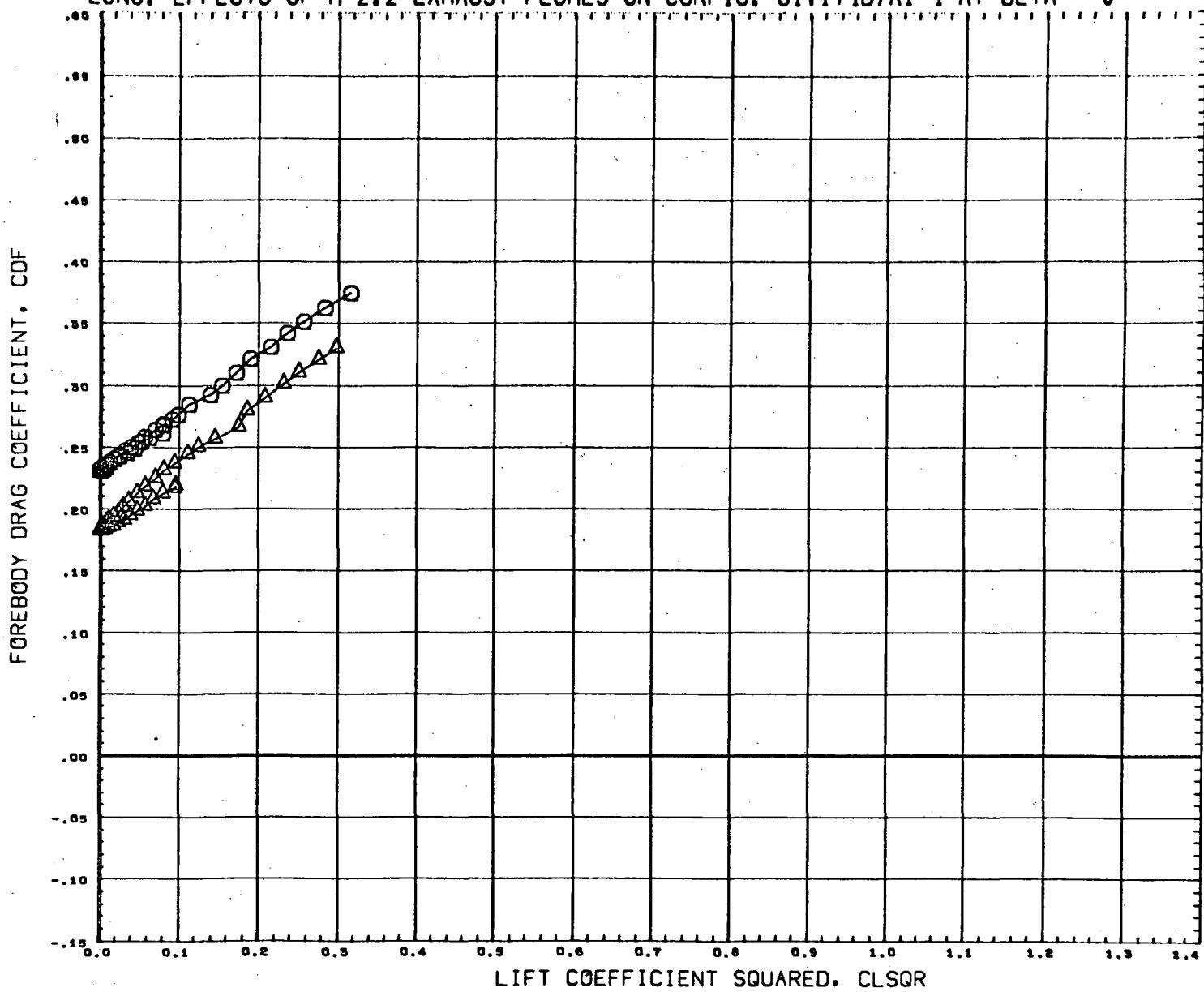


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONG. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0

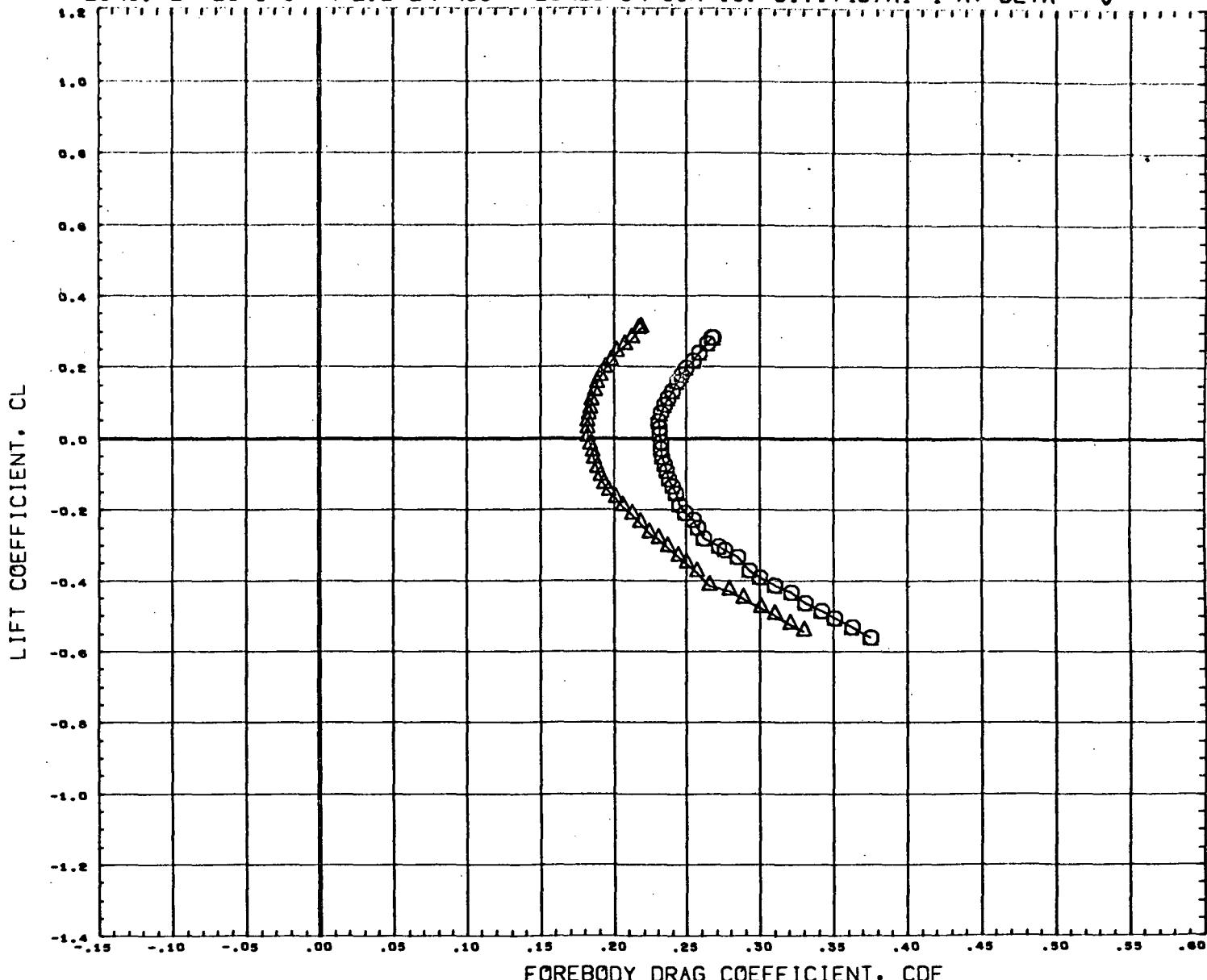


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION	
(CD7592)	○	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7581)	△	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
							BREF	882.0004 IN.
							XMRP	537.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 2.20

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LONG. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT BETA = 0



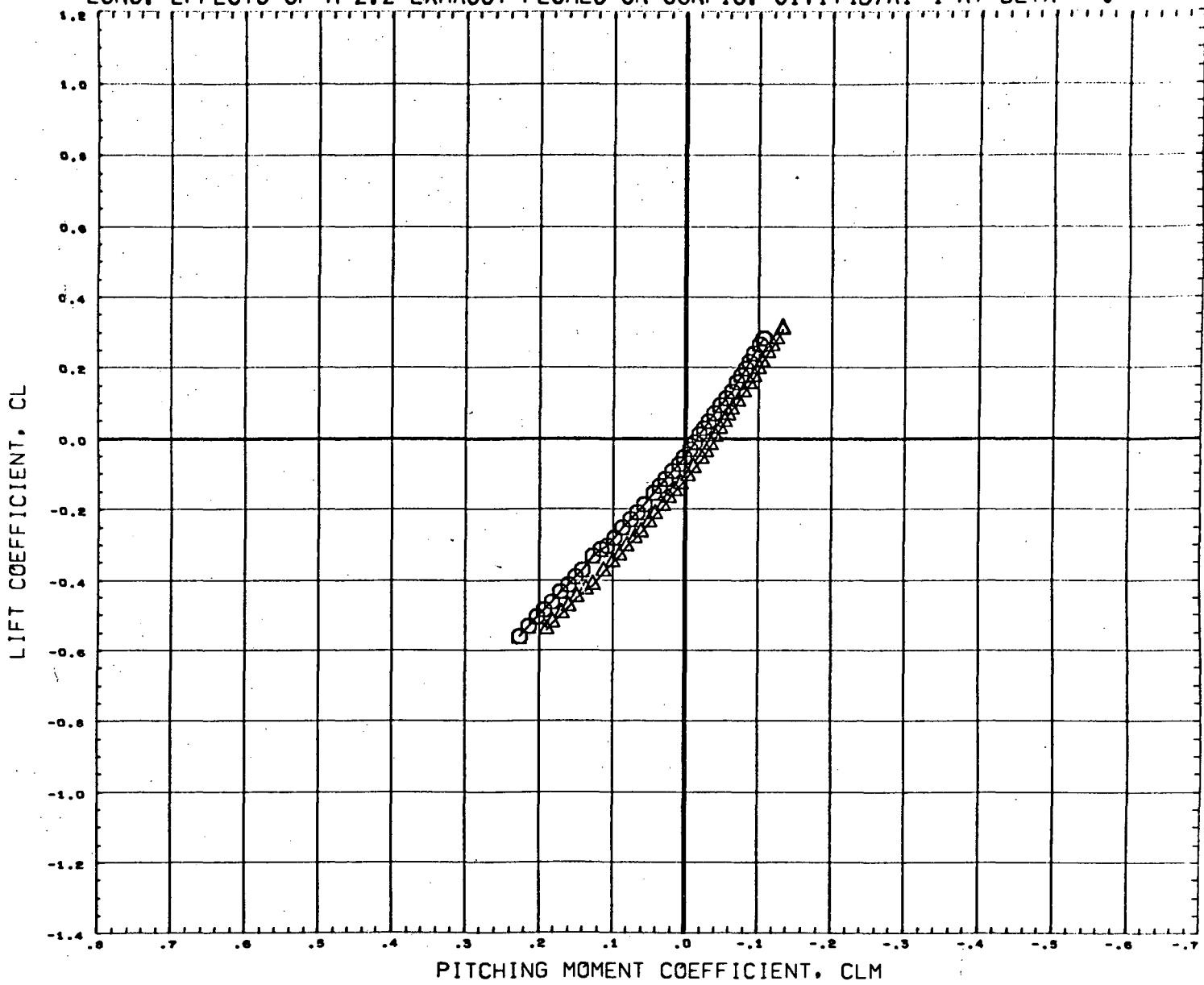
FOREBODY DRAG COEFFICIENT. CDF

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LONG. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. 01V1T4B7A1-4 AT BETA = 0



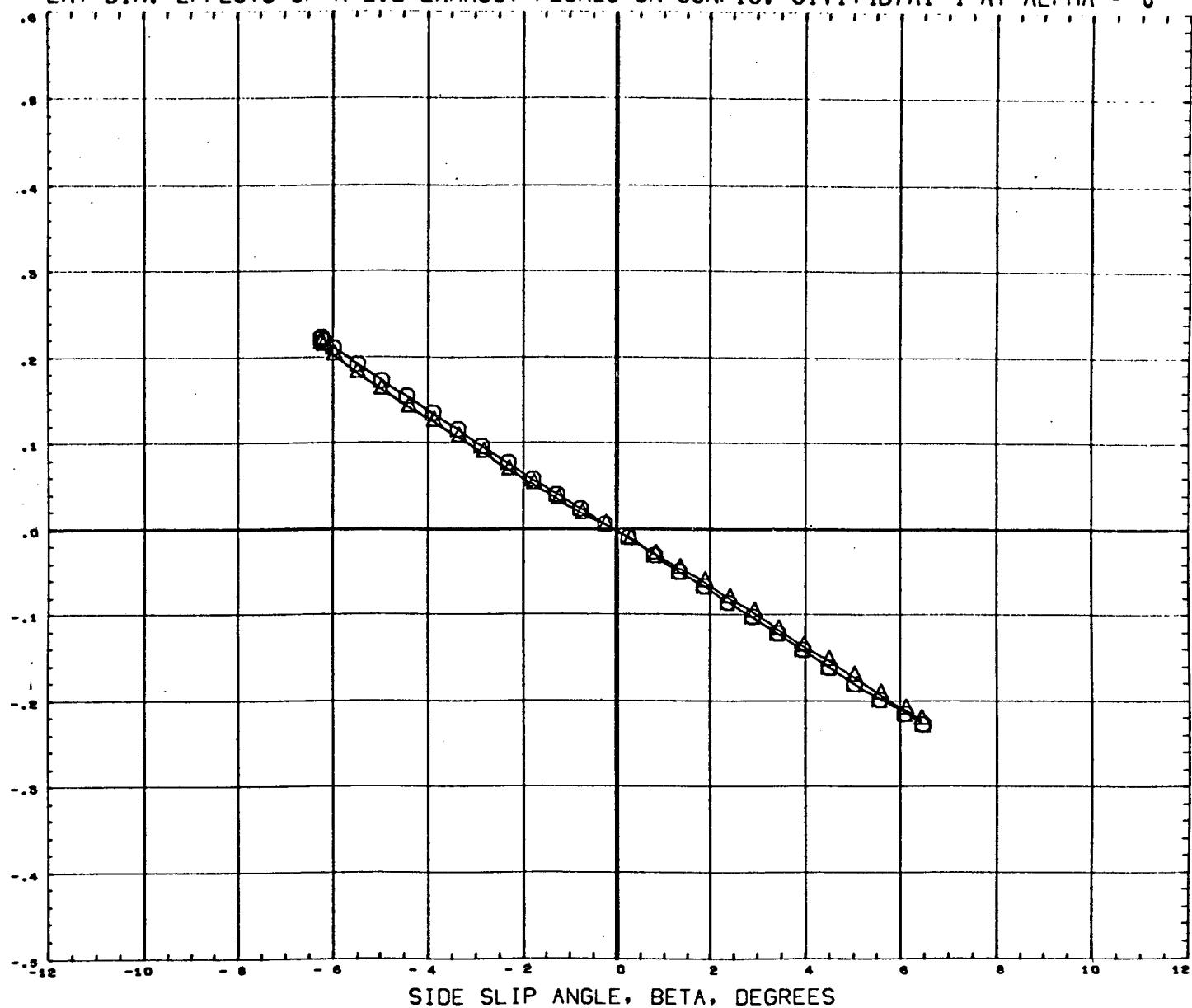
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CDT592)	○	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CDT581)	△	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LAT-DIR. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. 01V1T4B7A1-4 AT ALPHA = 0

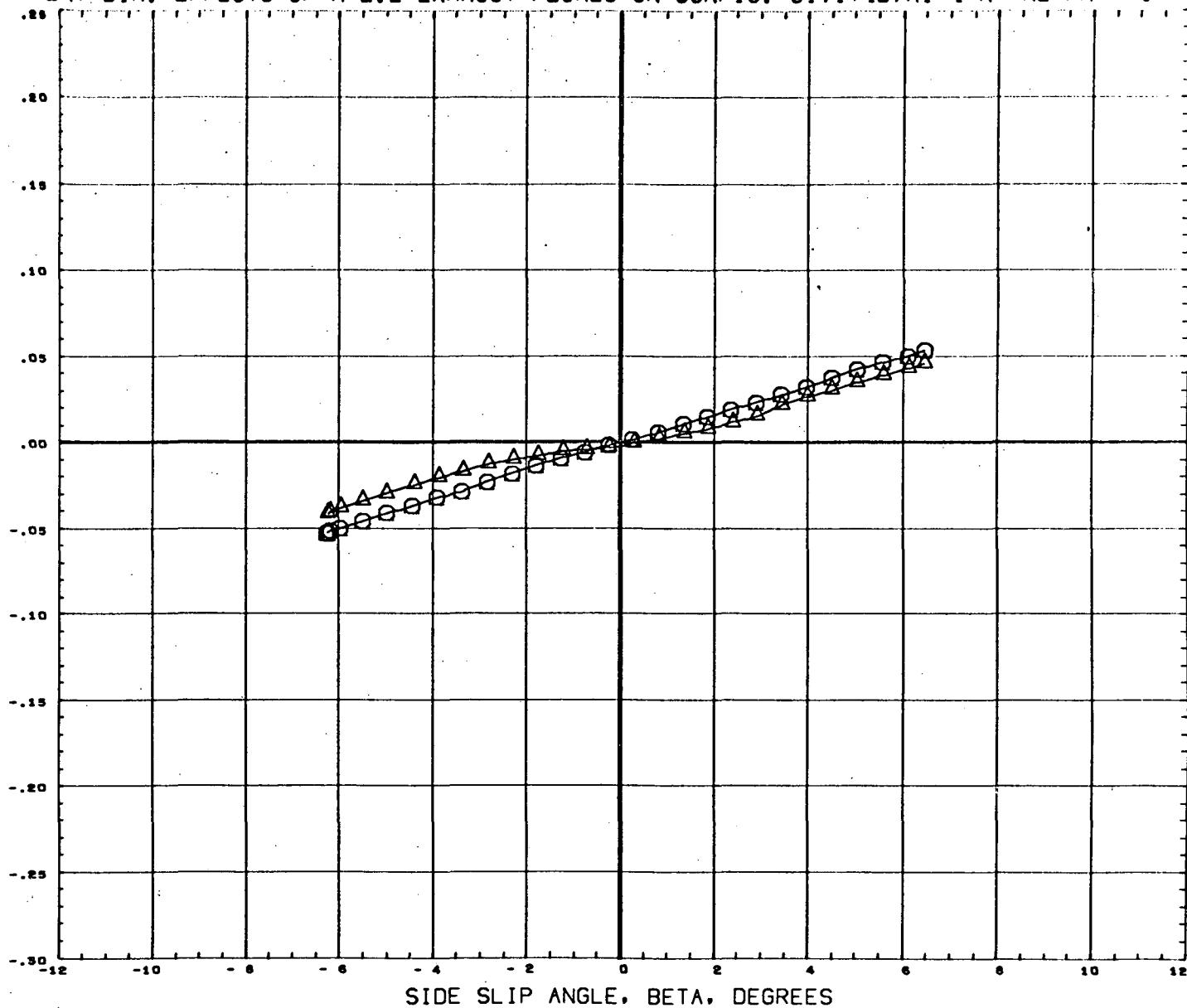
LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
(RD7593)	Q	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(RD7582)	Q	MDAC S-222 COMPOSITE(T-CG) 01V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
							BREF	682.0004	IN.
							XMRP	557.0004	IN.
							YMRP	0.0000	IN.
							ZMRP	200.0004	IN.
							SCALE	0.0060	

LAT-DIR. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, C_YN (BODY AXIS)

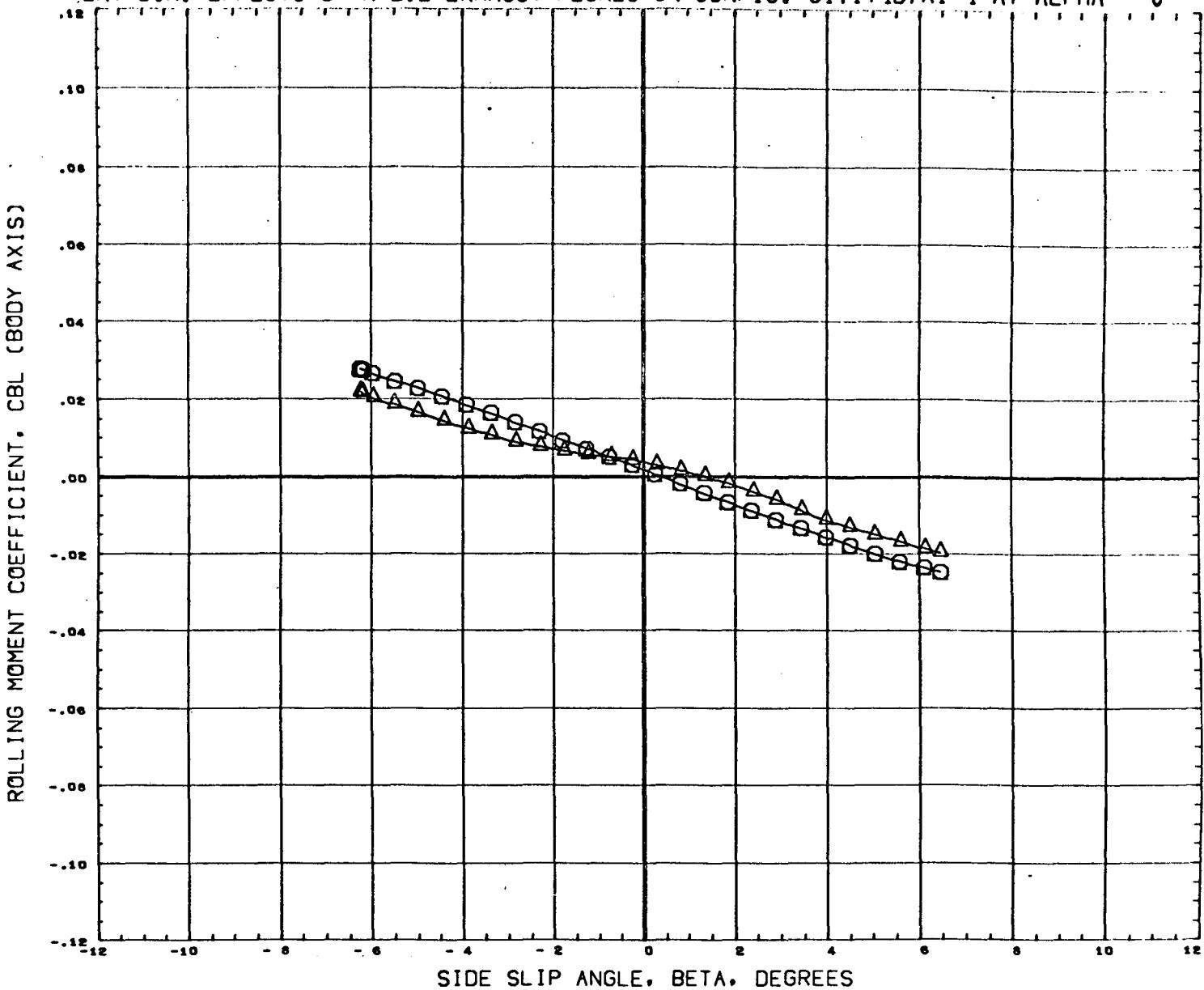


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE	INFORMATION
(RD7593)	△	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7582)	□	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH 2.20

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LAT-DIR. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT ALPHA = 0



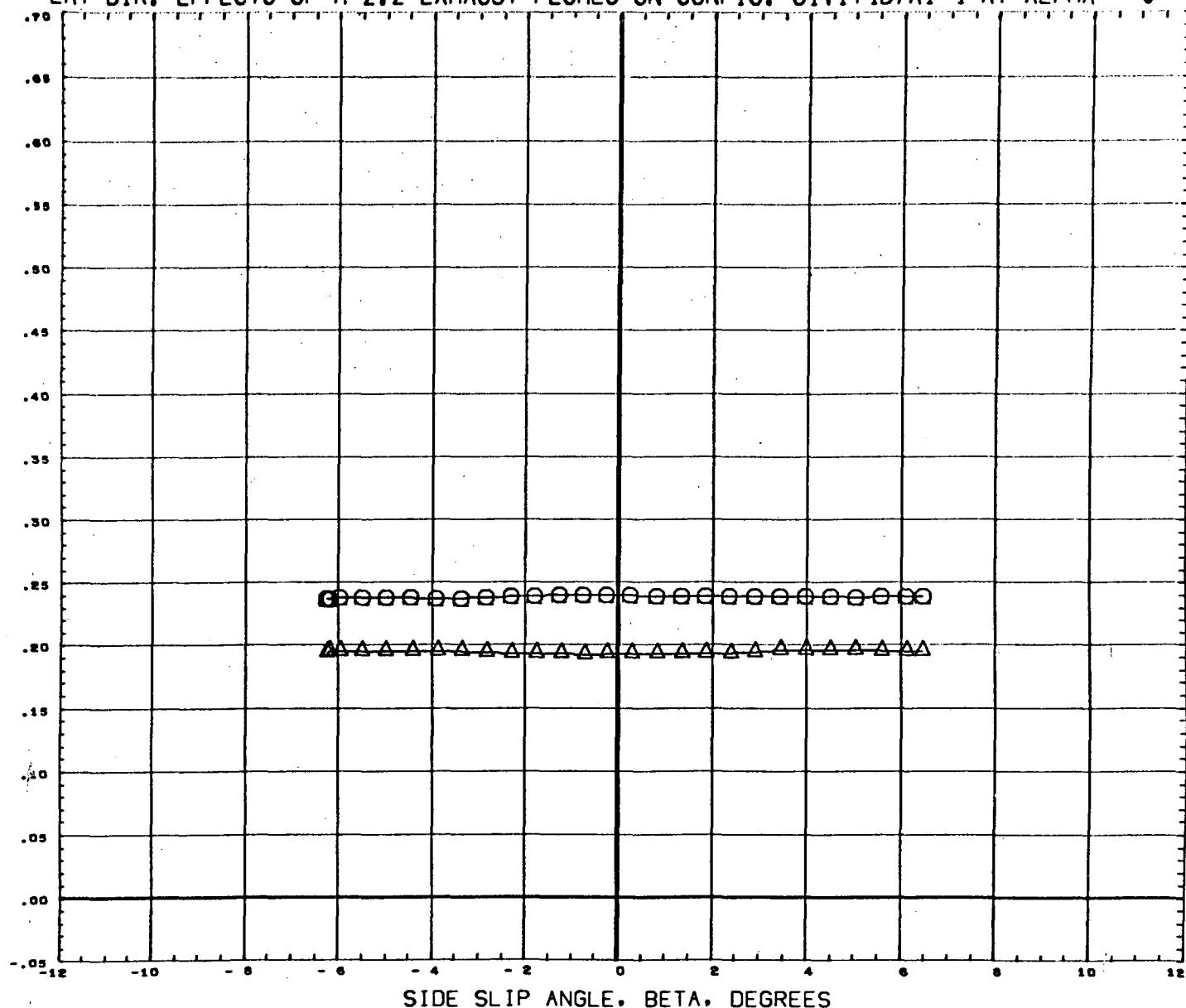
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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LAT-DIR. EFFECTS OF M=2.2 EXHAUST PLUMES ON CONFIG. O1V1T4B7A1-4 AT ALPHA = 0

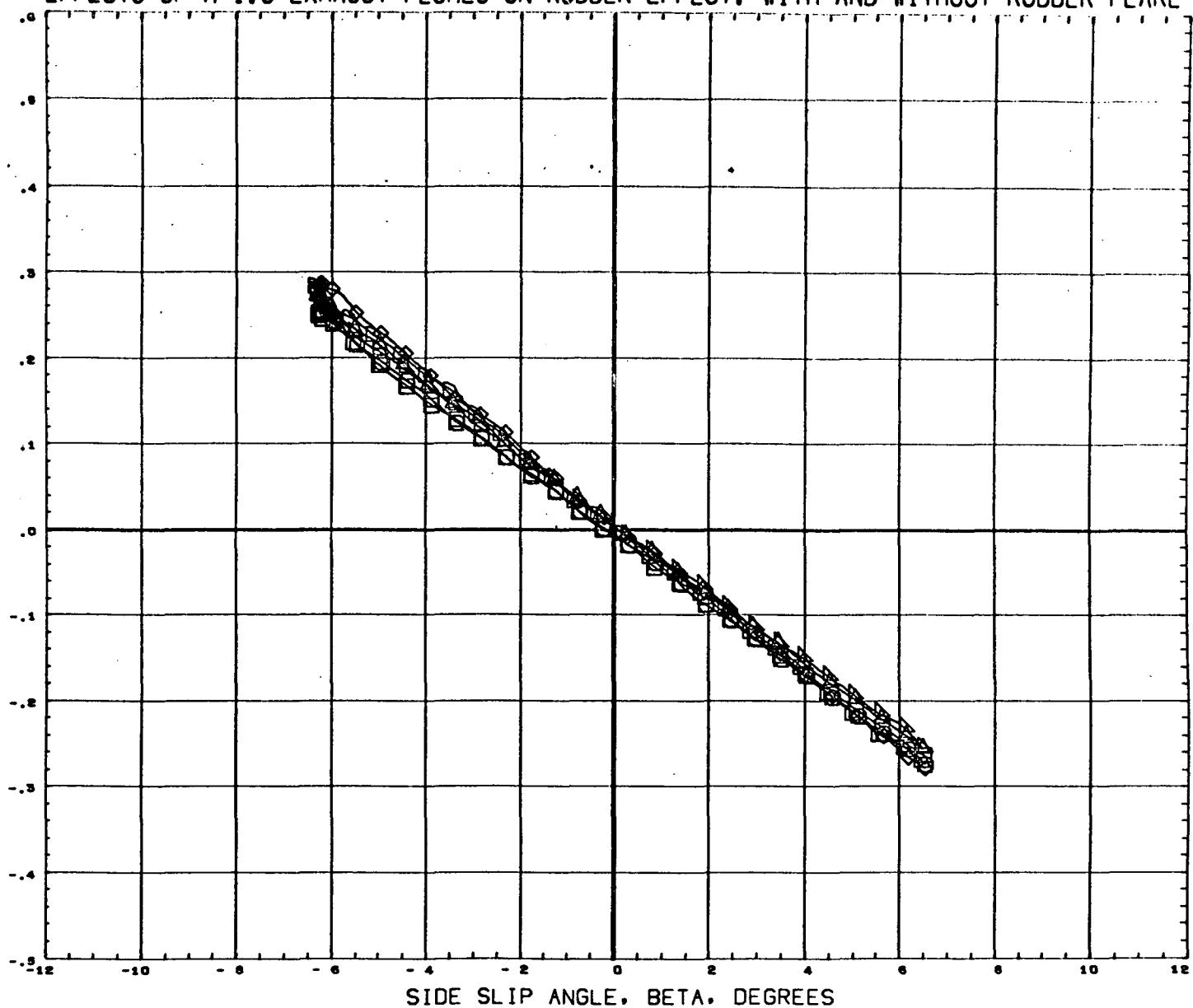
FOREBODY AXIAL FORCE COEFFICIENT, CAF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 : SQ.FT.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

LATERAL FORCE COEFFICIENT, CY



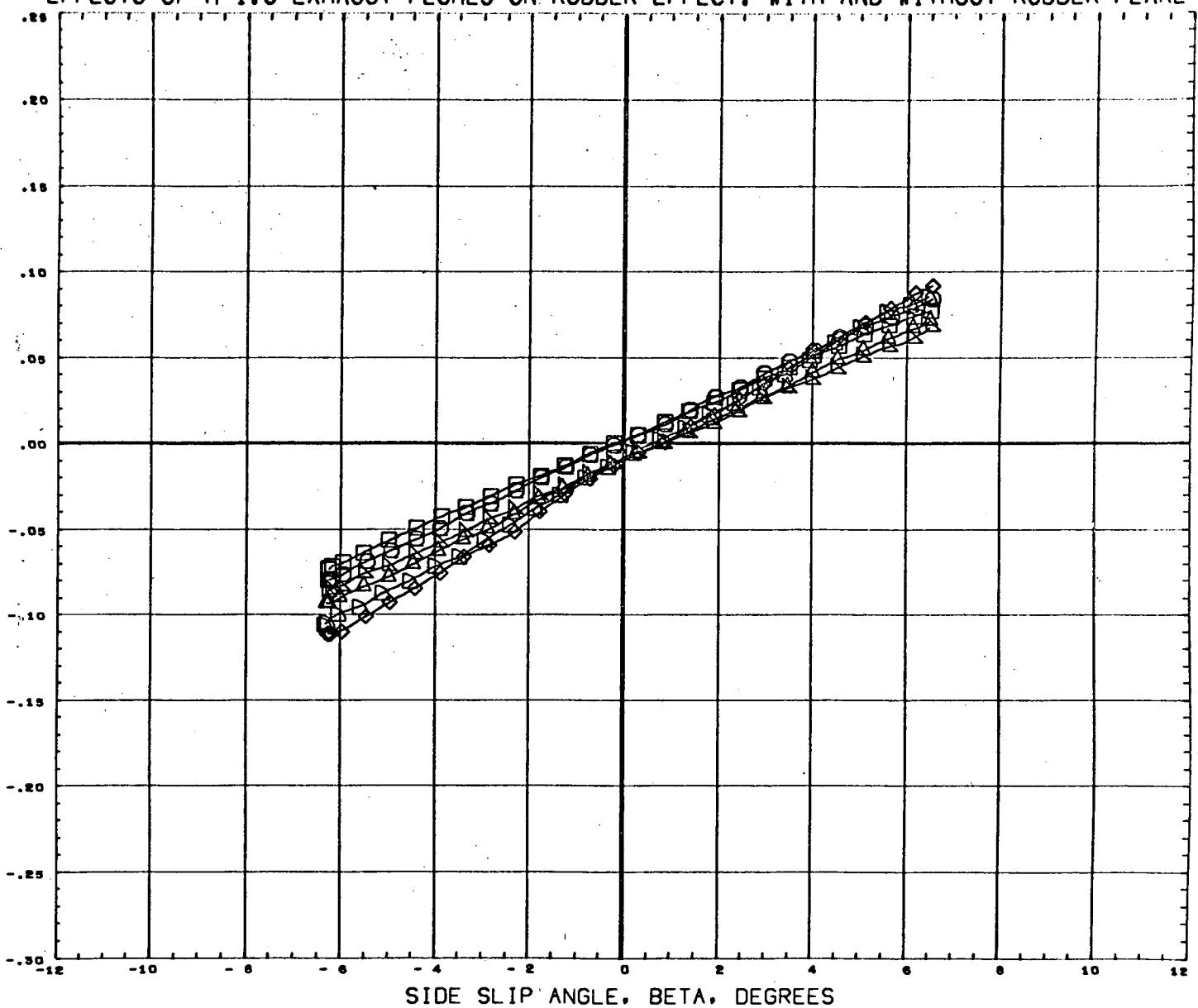
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7595)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD75A2)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD75A4)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(RD75A8)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



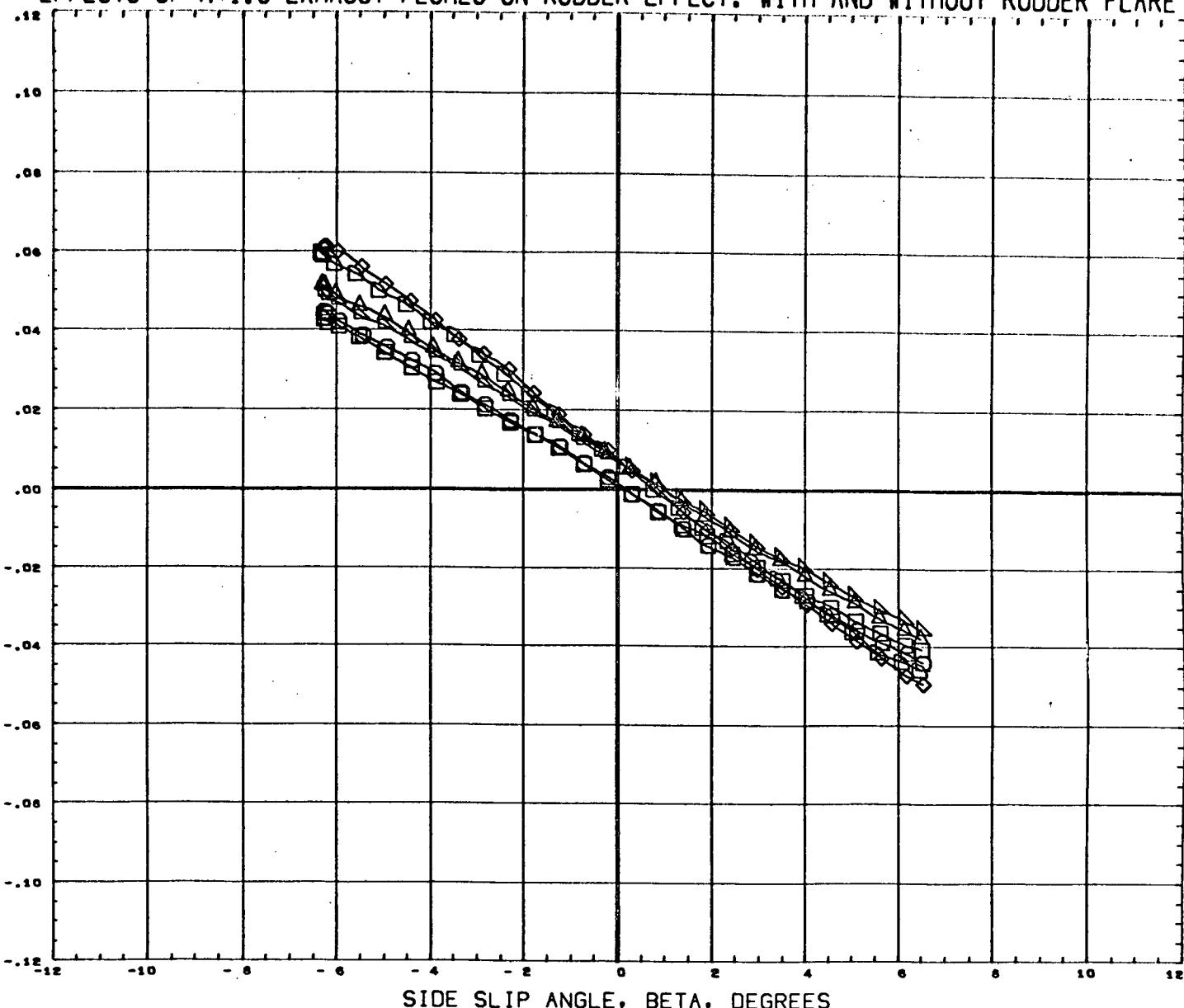
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR.	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7595)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD75A2)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD75A4)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(RD75A6)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



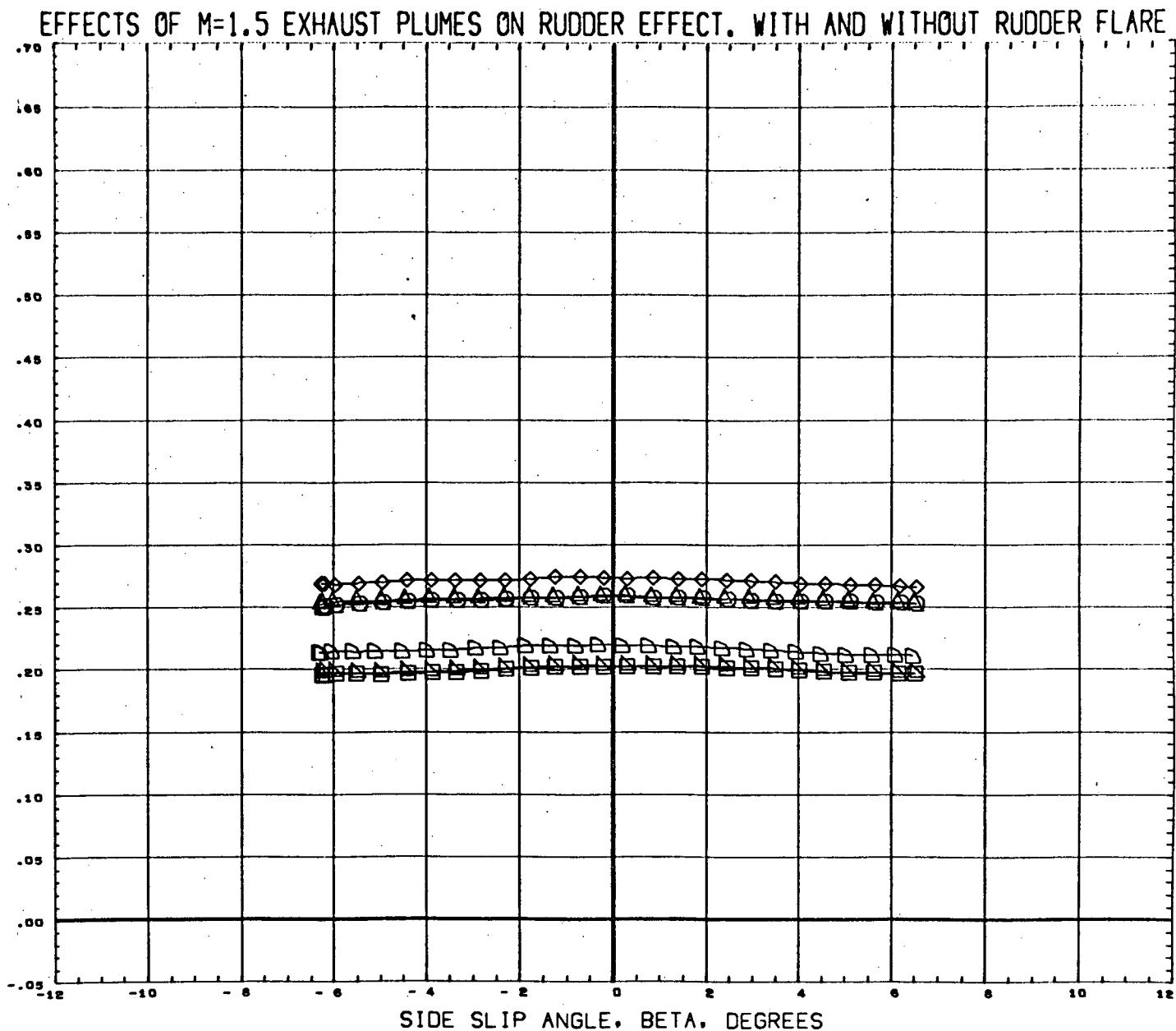
SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7595)	MDAC S-222 COMPOSITE (T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD75A2)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD75A4)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(RD75A6)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
					SCALE 0.0060	

MACH 1.51

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FOREBODY AXIAL FORCE COEFFICIENT • CAF

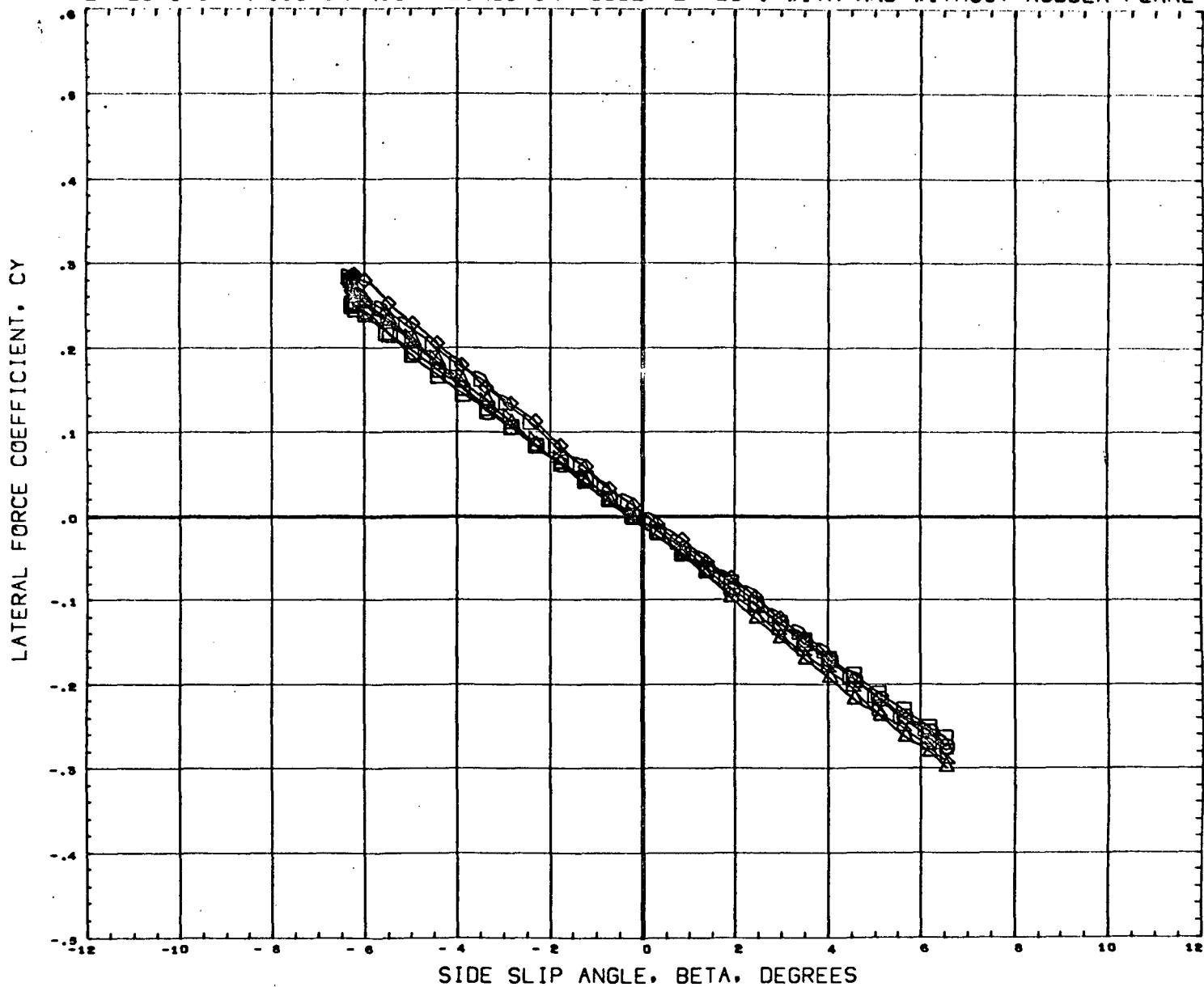


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION		
						SREF	3155.3040	SQ.FT.
(RD7593)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
(RD7595)	MDAC S-222 COMPOSITE (T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	BREF	682.0004	IN.
(RD7599)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	XMRP	557.0004	IN.
(RD75A2)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	YMRP	0.0000	IN.
(RD75A4)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	10.000	ZMRP	200.0004	IN.
(RD75A8)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	SCALE	0.0060	

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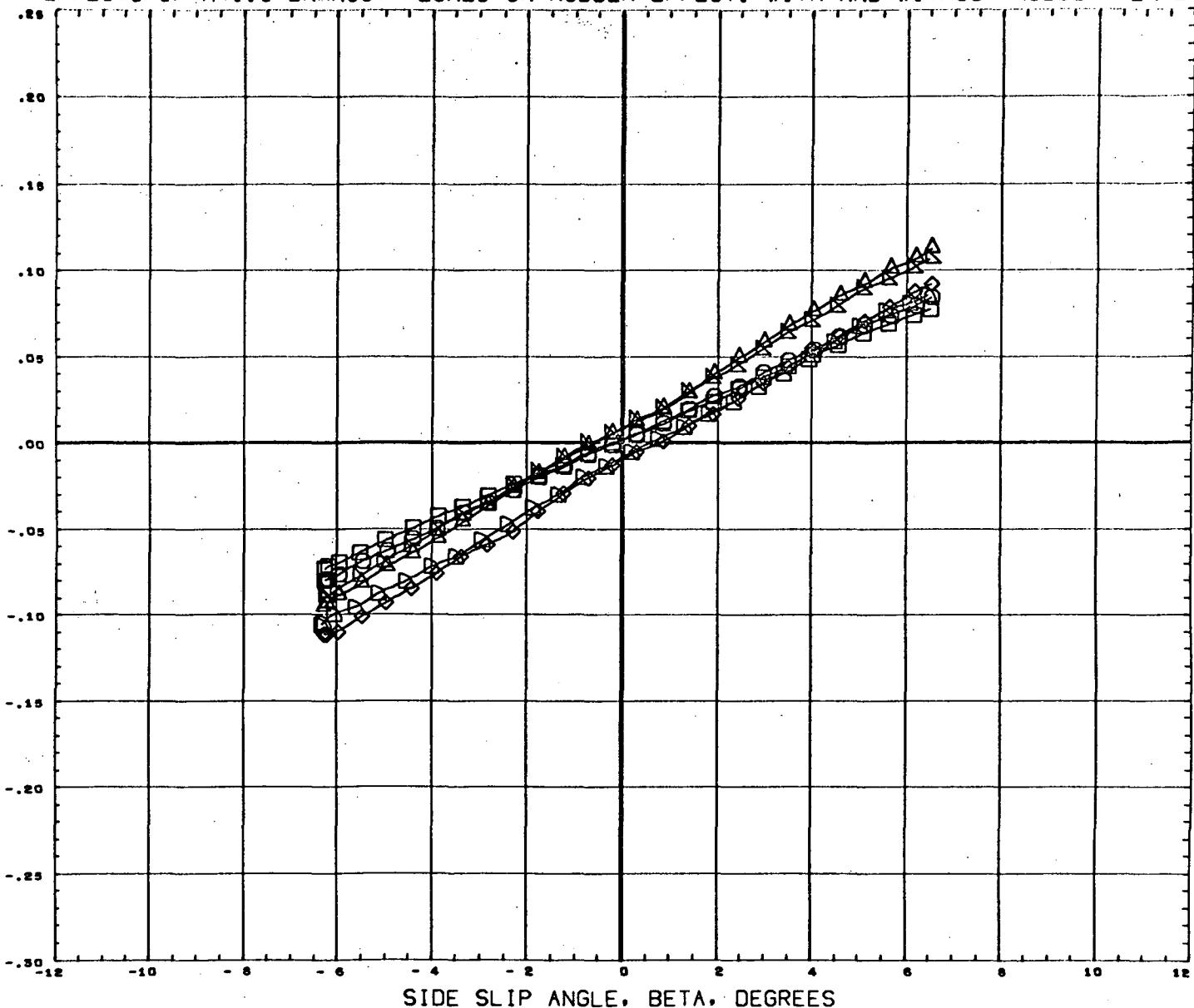
EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE



MACH 1.51 PAGE 250

EFFECTS OF M=1.5 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

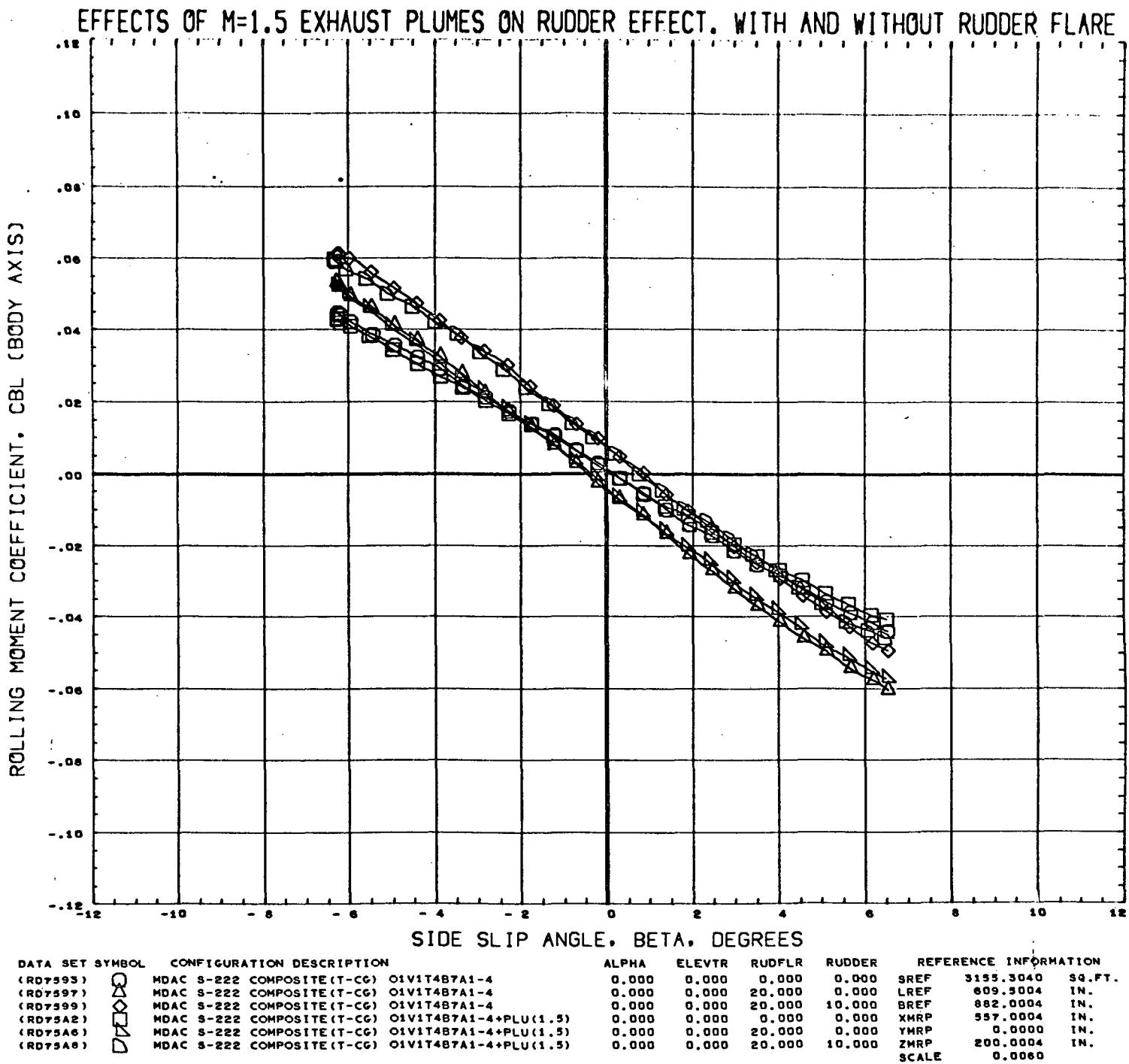
YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7597)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD75A2)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD75A6)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(RD75A8)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

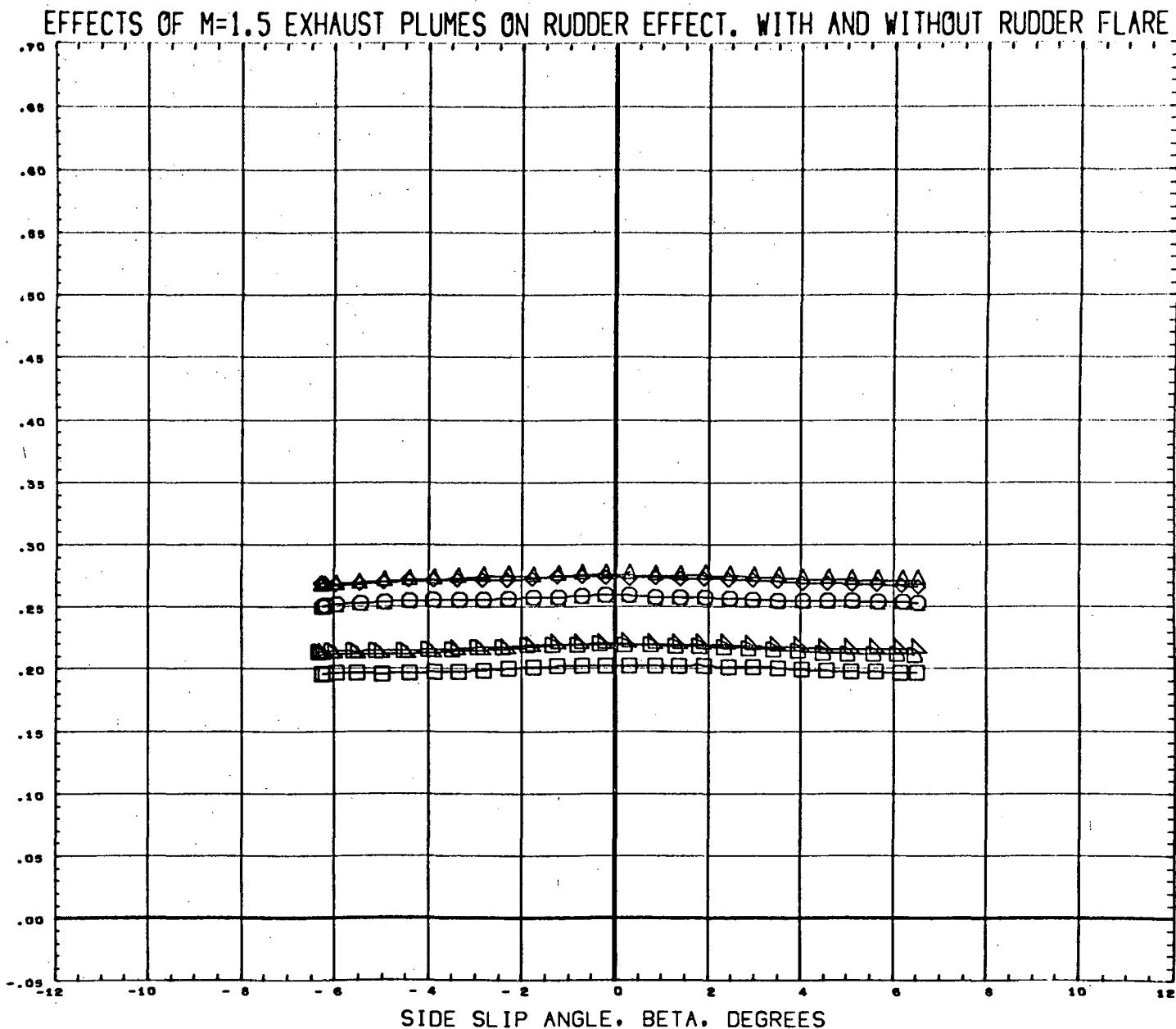
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FOREBODY AXIAL FORCE COEFFICIENT. CAF

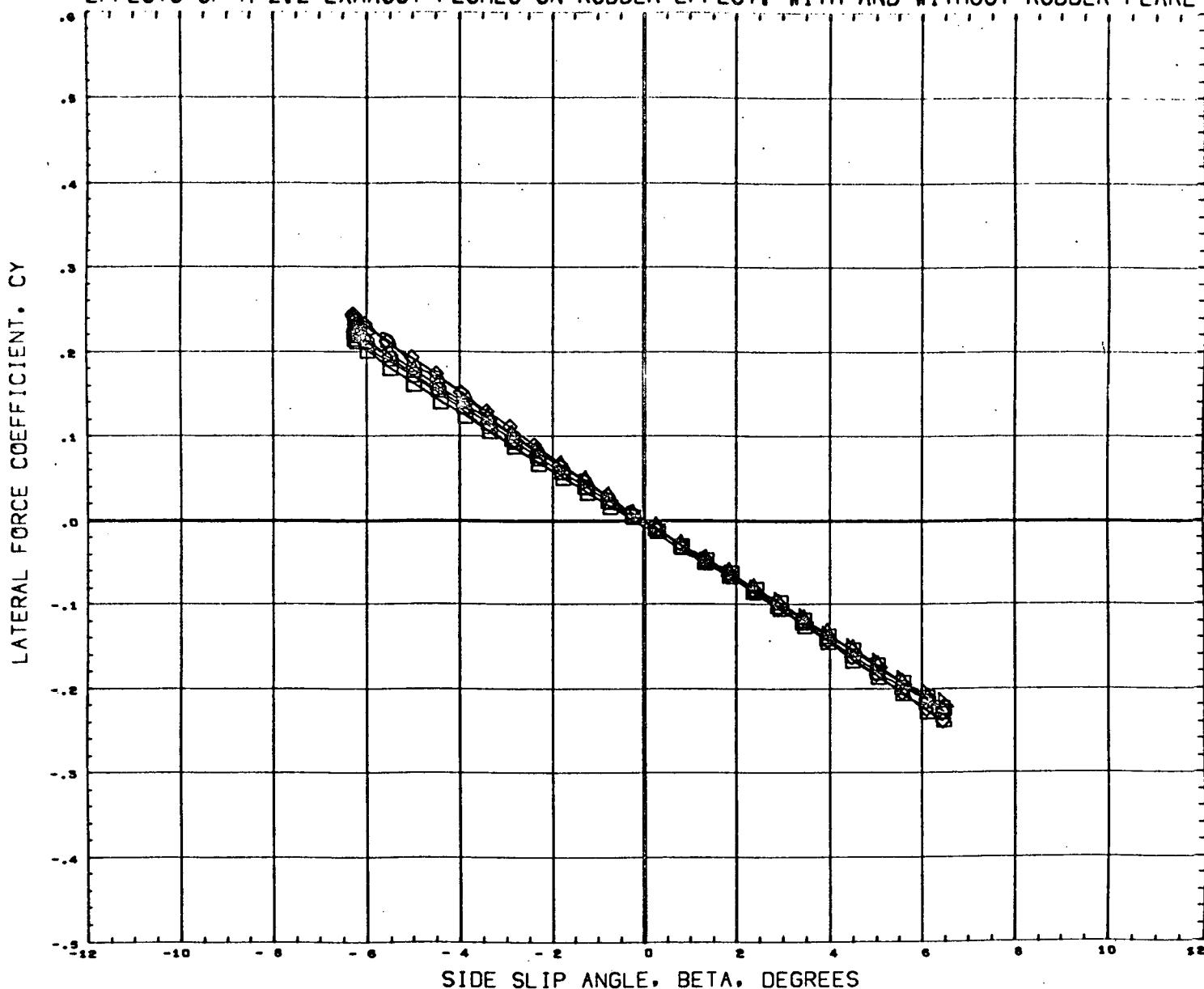


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7597)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 662.0004 IN.
(RD75A2)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD75A6)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(RD75A8)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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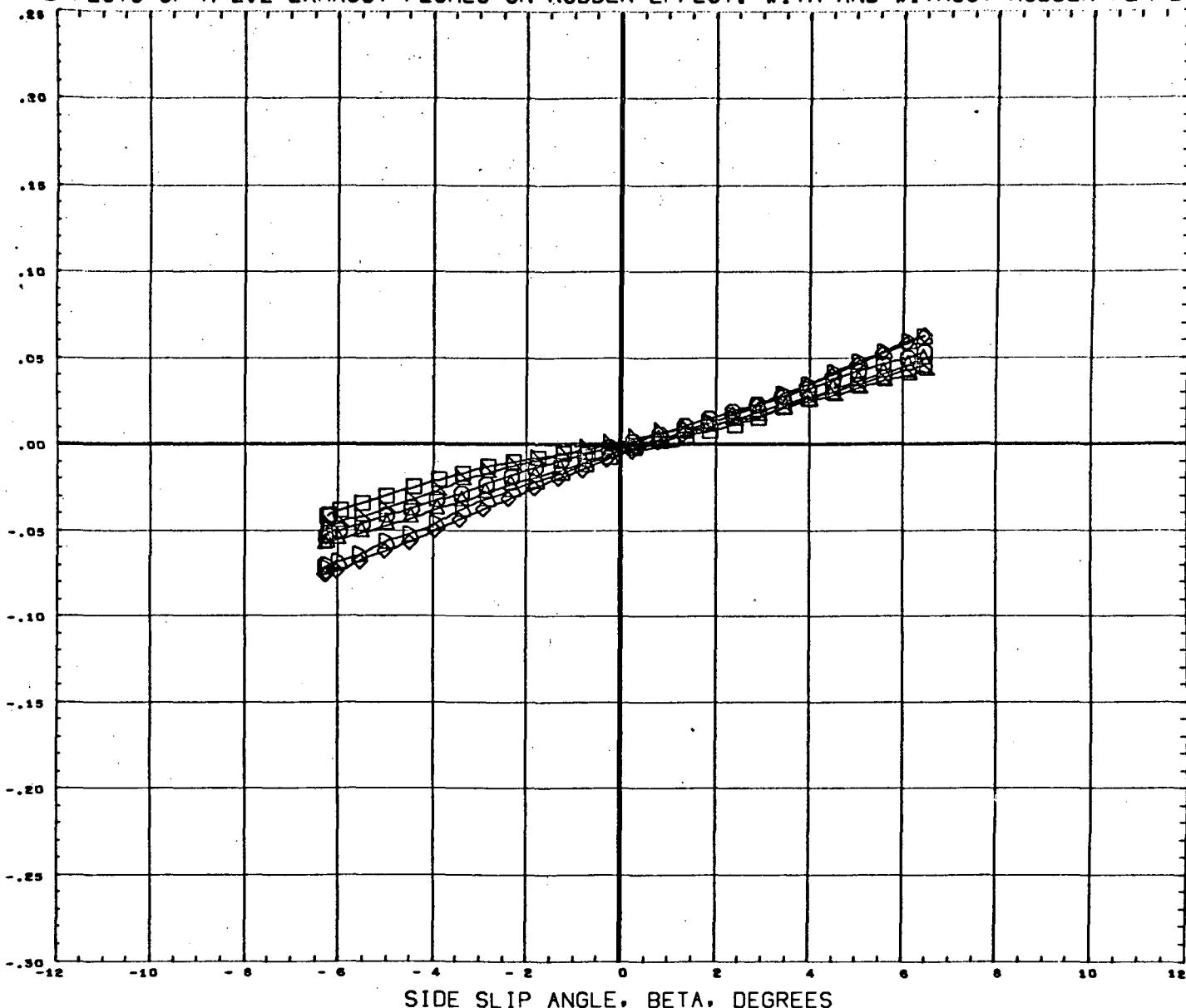
EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7595)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.3004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD7584)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(RD7586)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
					SCALE	0.0060

EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

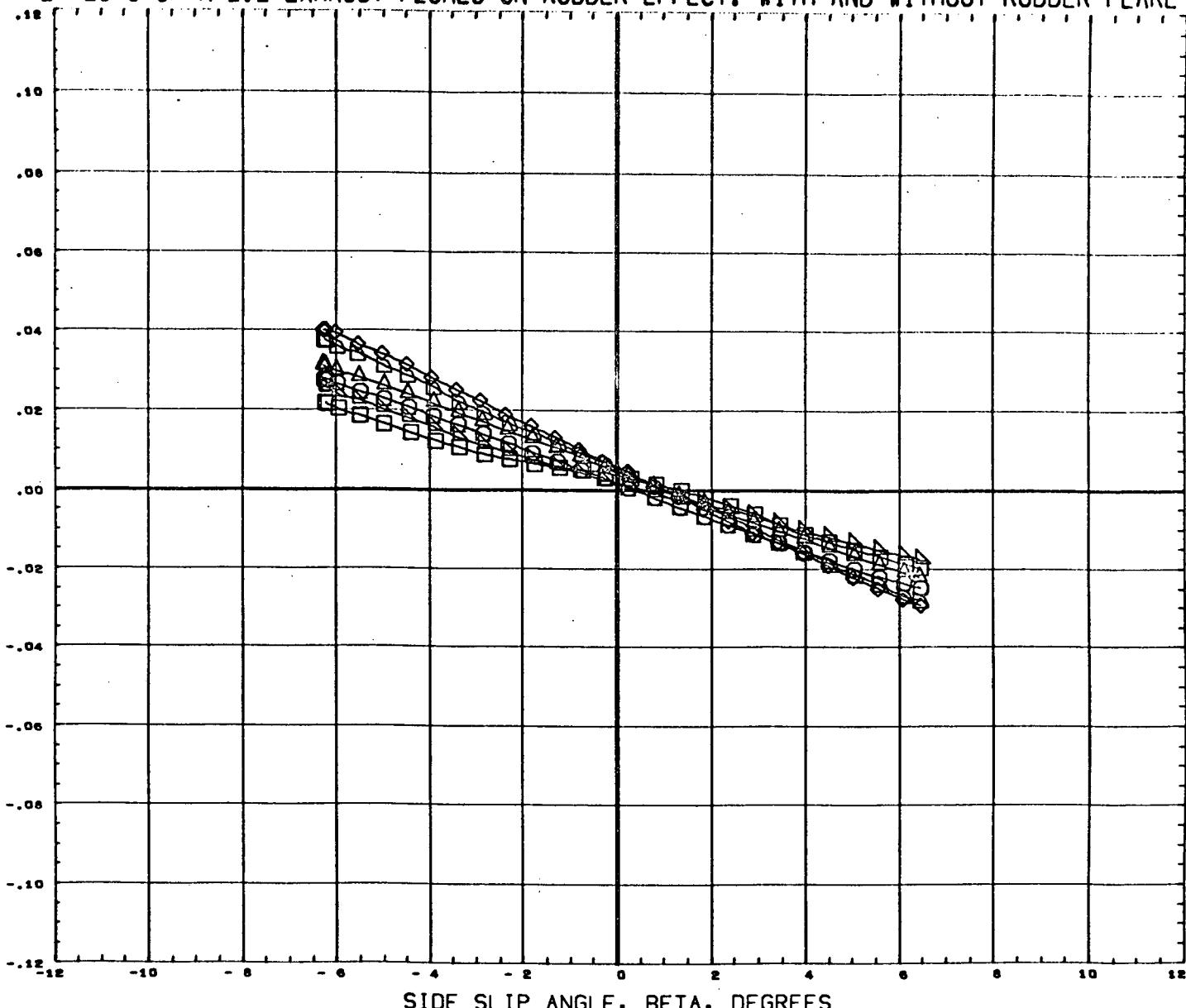
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7595)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD7584)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(RD7586)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

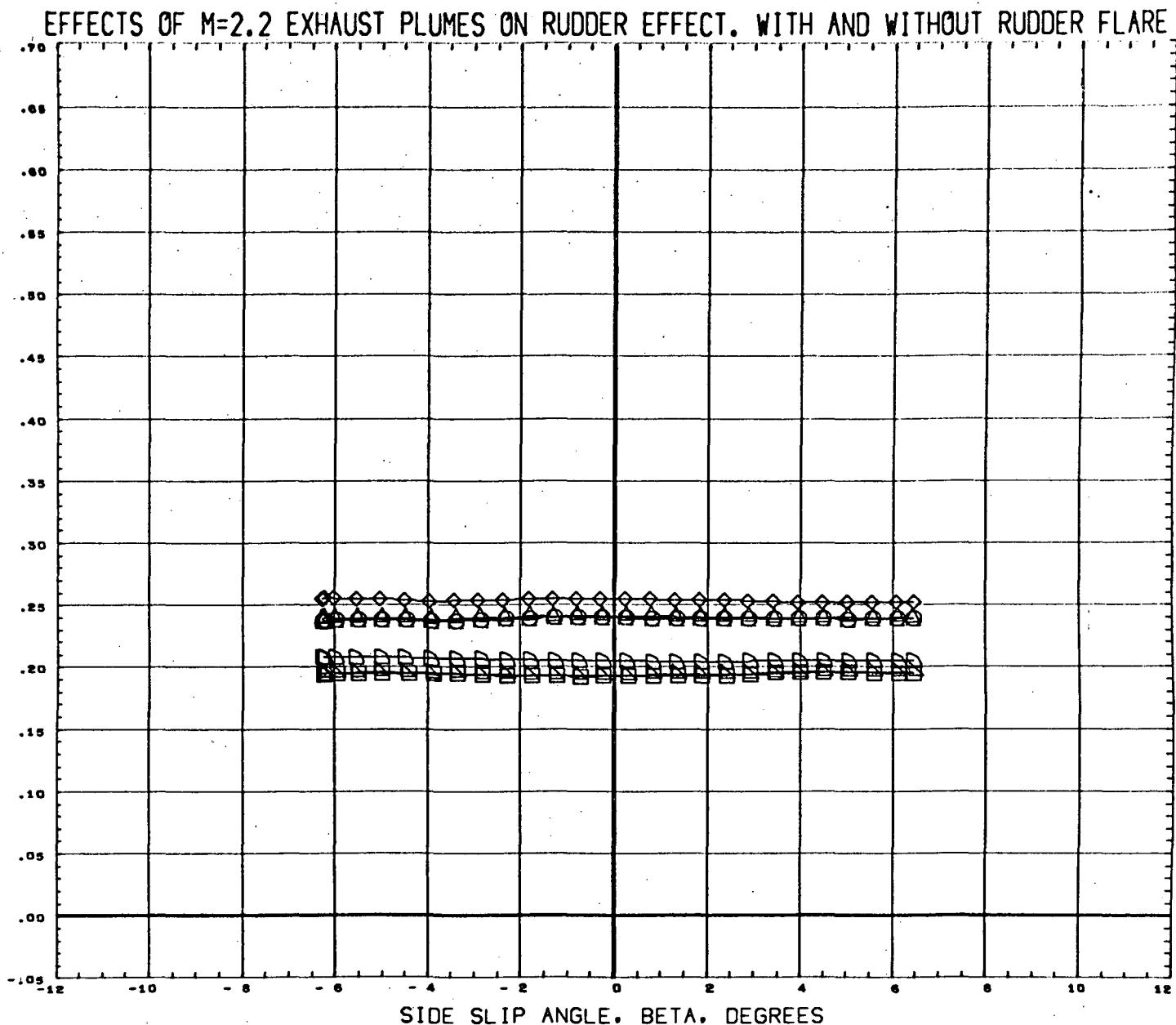


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7595)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	682.0004 IN.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(RD7584)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP	0.0000 IN.
(RD7586)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 2.20

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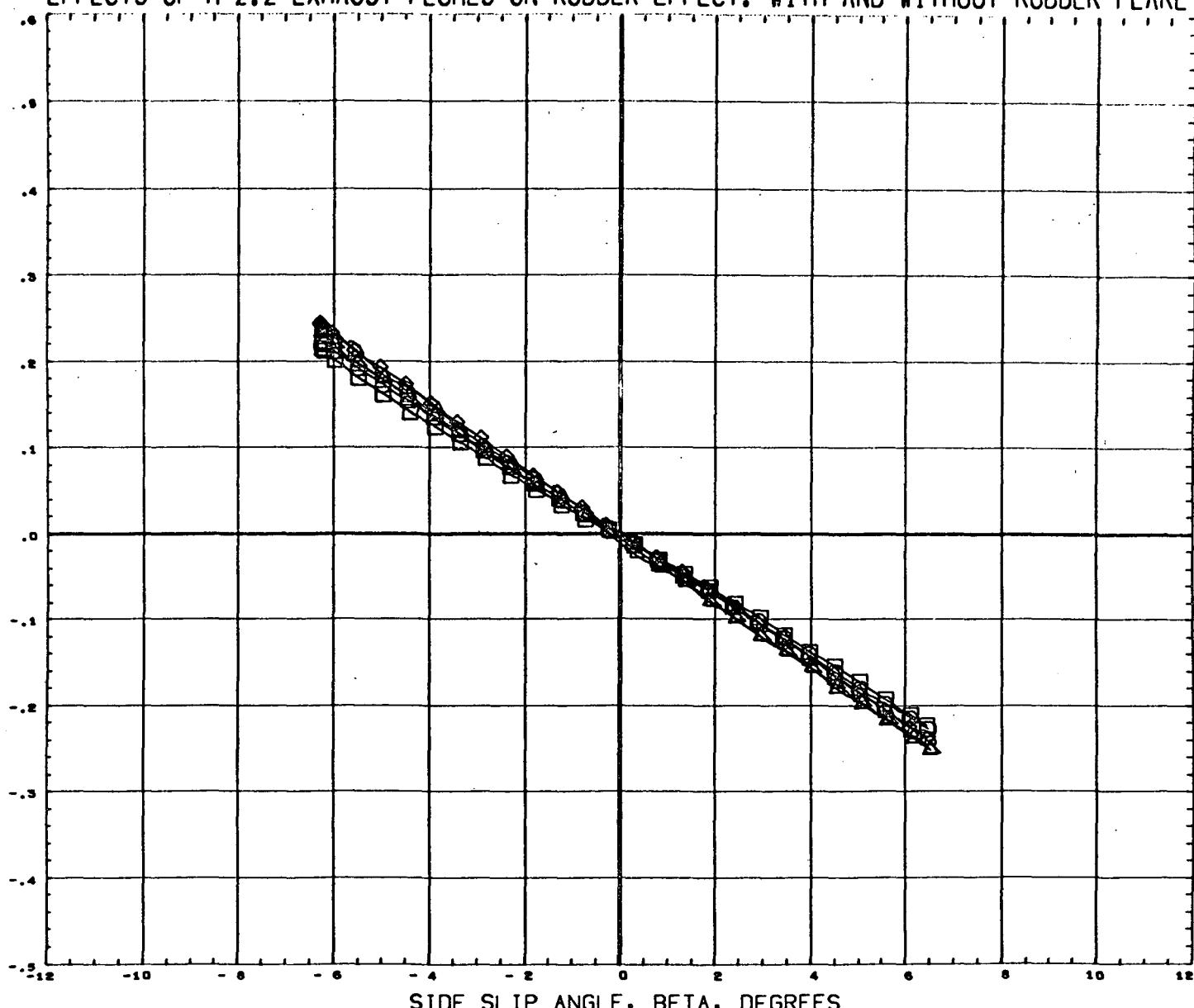
FOREBODY AXIAL FORCE COEFFICIENT, CAF



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 5155.3040 SQ.FT.
(RD7595)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD7584)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(RD7586)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
					SCALE	0.0060

EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

LATERAL FORCE COEFFICIENT, CY

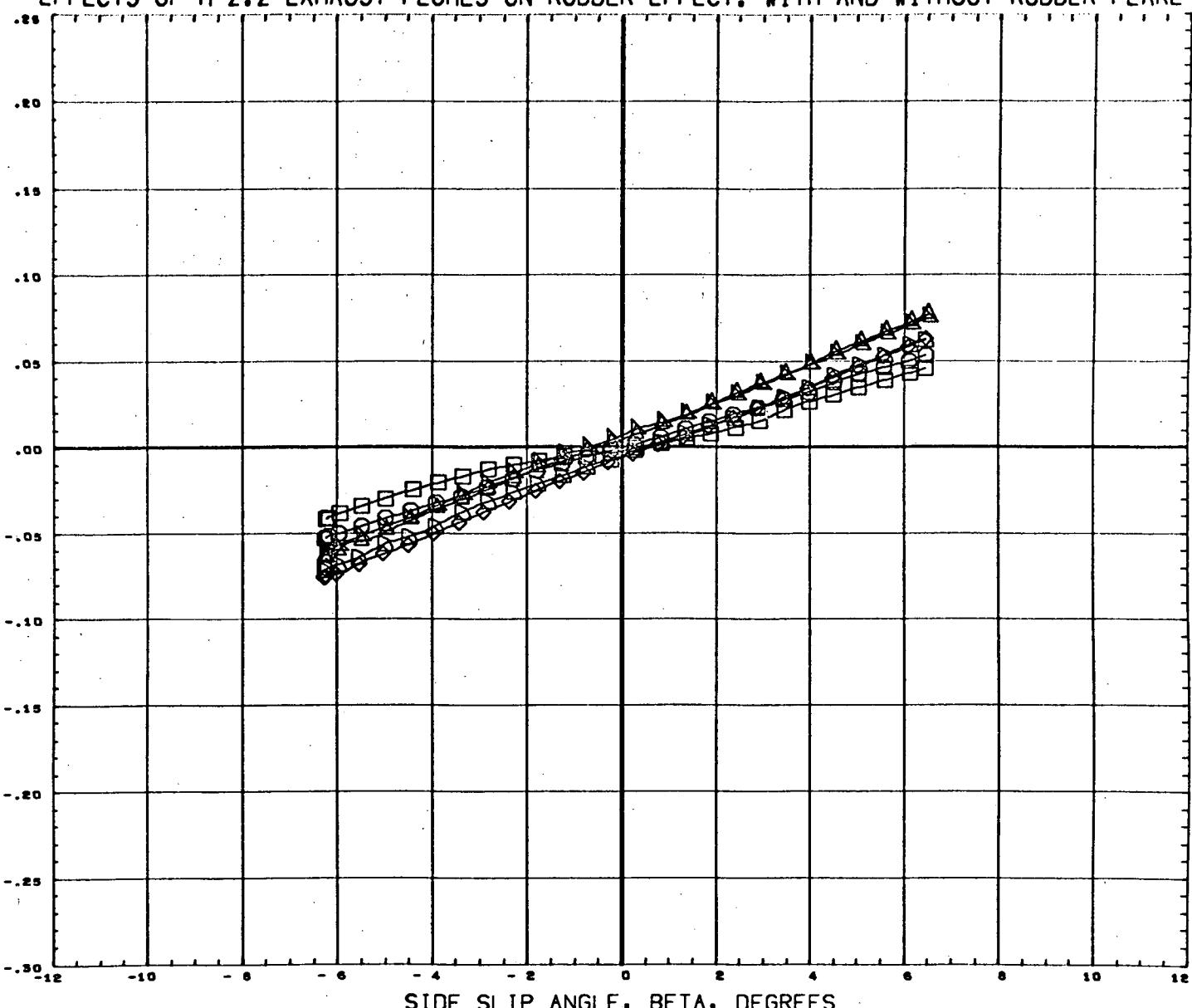


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7597)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD75B2)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD75B6)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(RD75B8)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
					SCALE	0.0060

EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

YAWING MOMENT COEFFICIENT. CYN (BODY AX[IS])



SIDE SLIP ANGLE. BETA. DEGREES

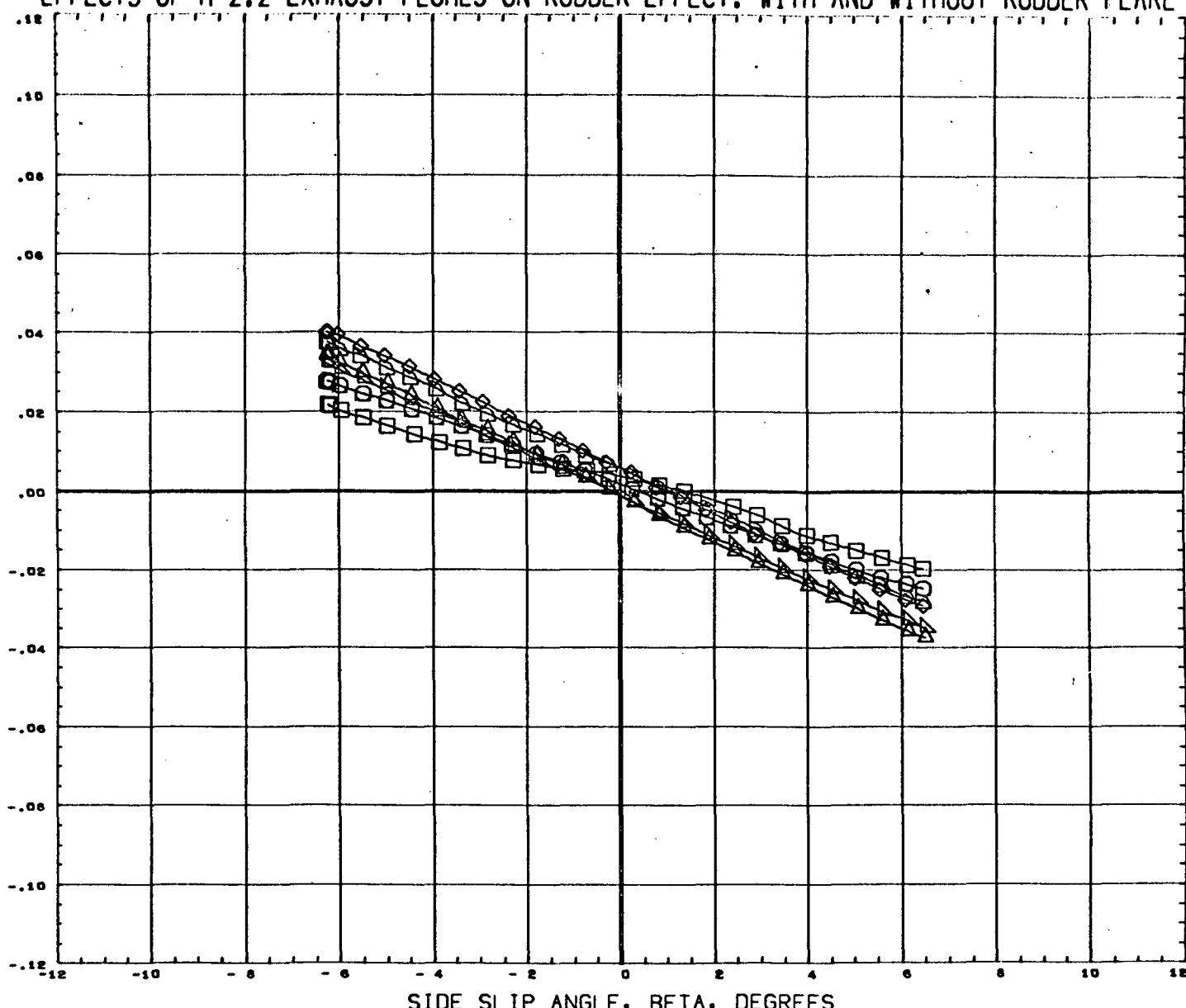
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 5155.3040 SQ.FT.
(RD7597)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.3004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 682.0004 IN.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD7586)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(RD7588)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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EFFECTS OF M=2.2 EXHAUST PLUMES ON RUDDER EFFECT. WITH AND WITHOUT RUDDER FLARE

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

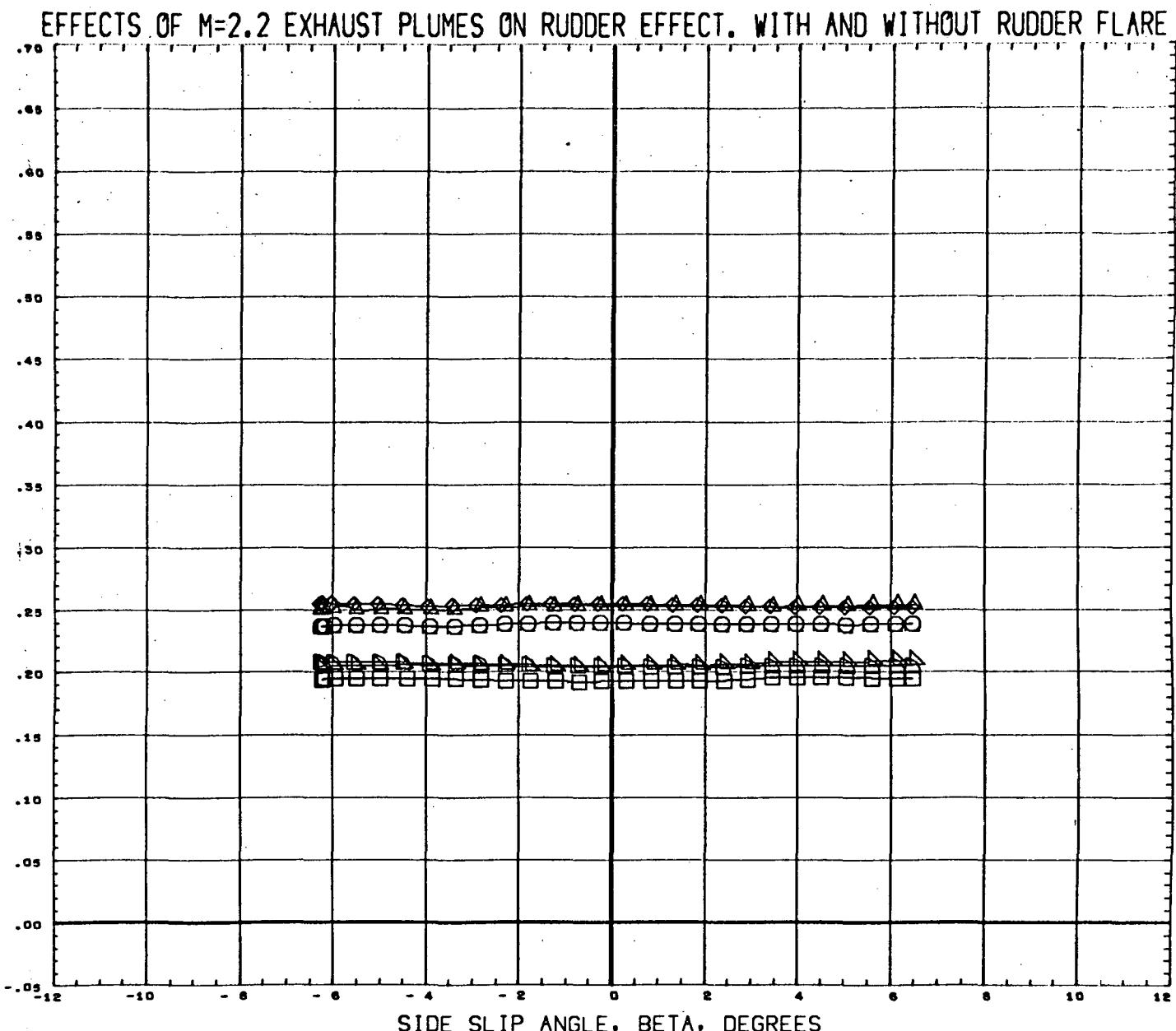
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7597)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(RD7582)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(RD7586)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(RD7588)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH

2.20

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FOREBODY AXIAL FORCE COEFFICIENT, CAF

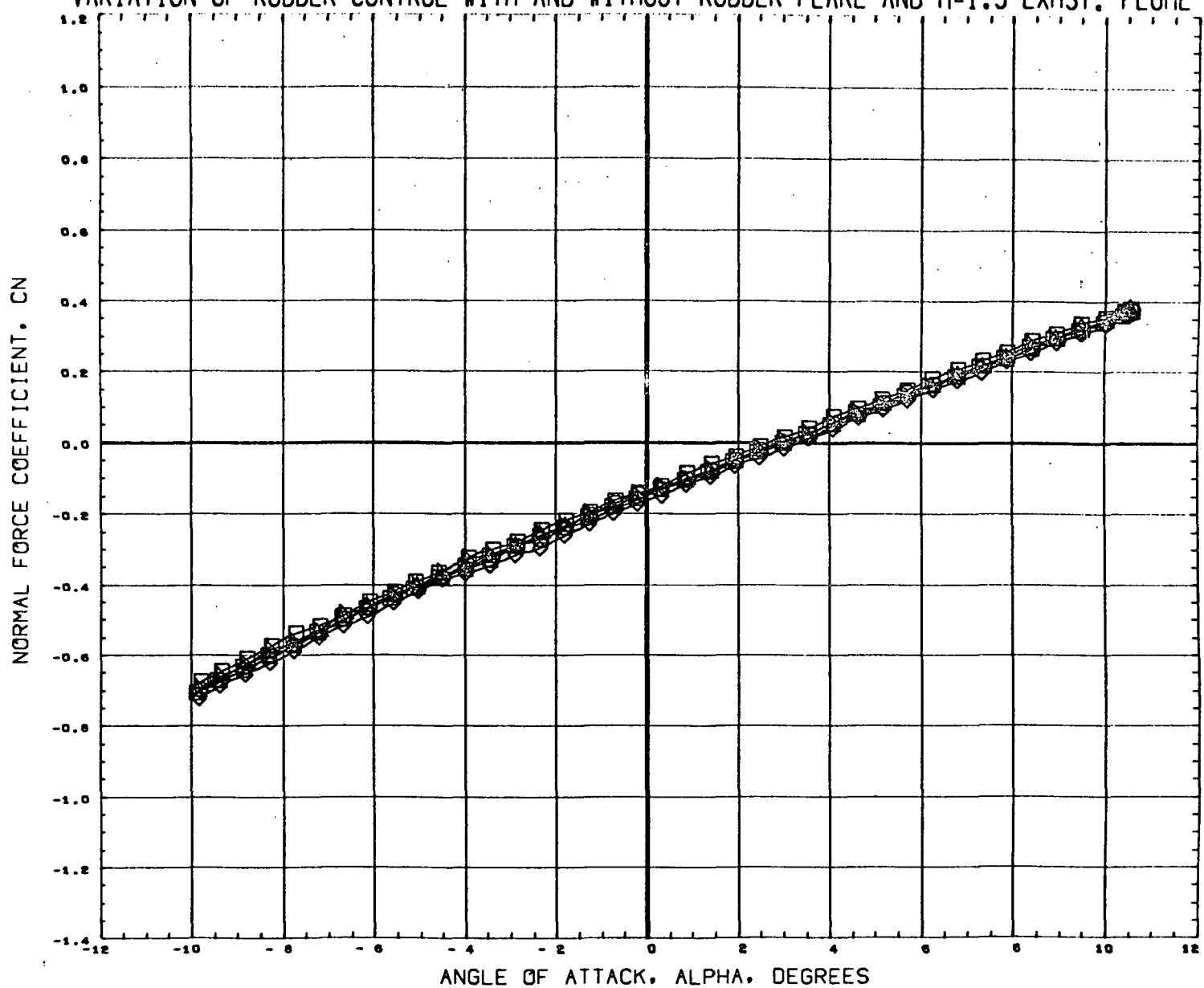


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(RD7593)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7597)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF .609.5004 IN.
(RD7599)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF .882.0004 IN.
(RD75B2)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP .557.0004 IN.
(RD75B6)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(RD75B8)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME



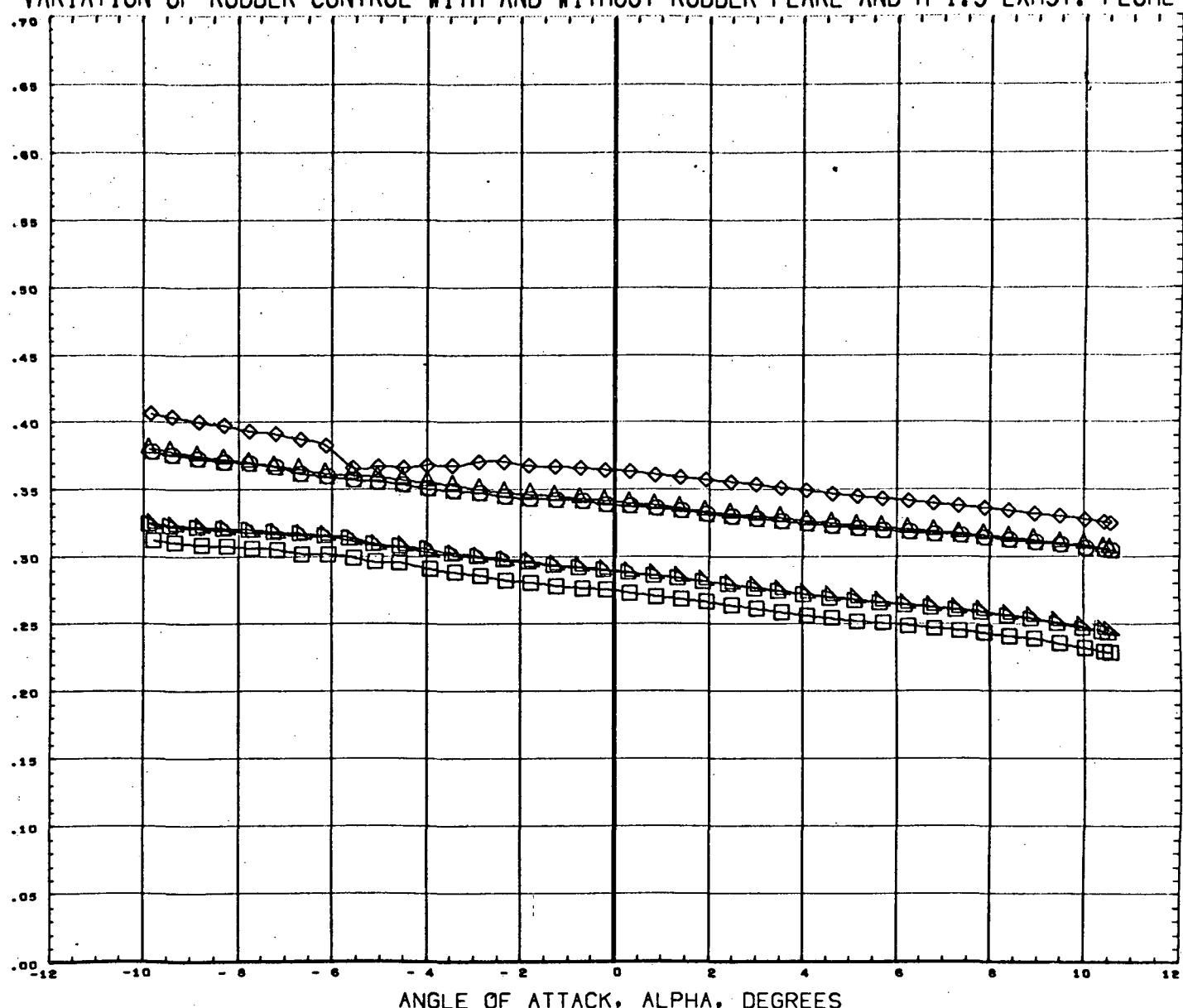
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

AXIAL FORCE COEFFICIENT, CA



ANGLE OF ATTACK, ALPHA, DEGREES

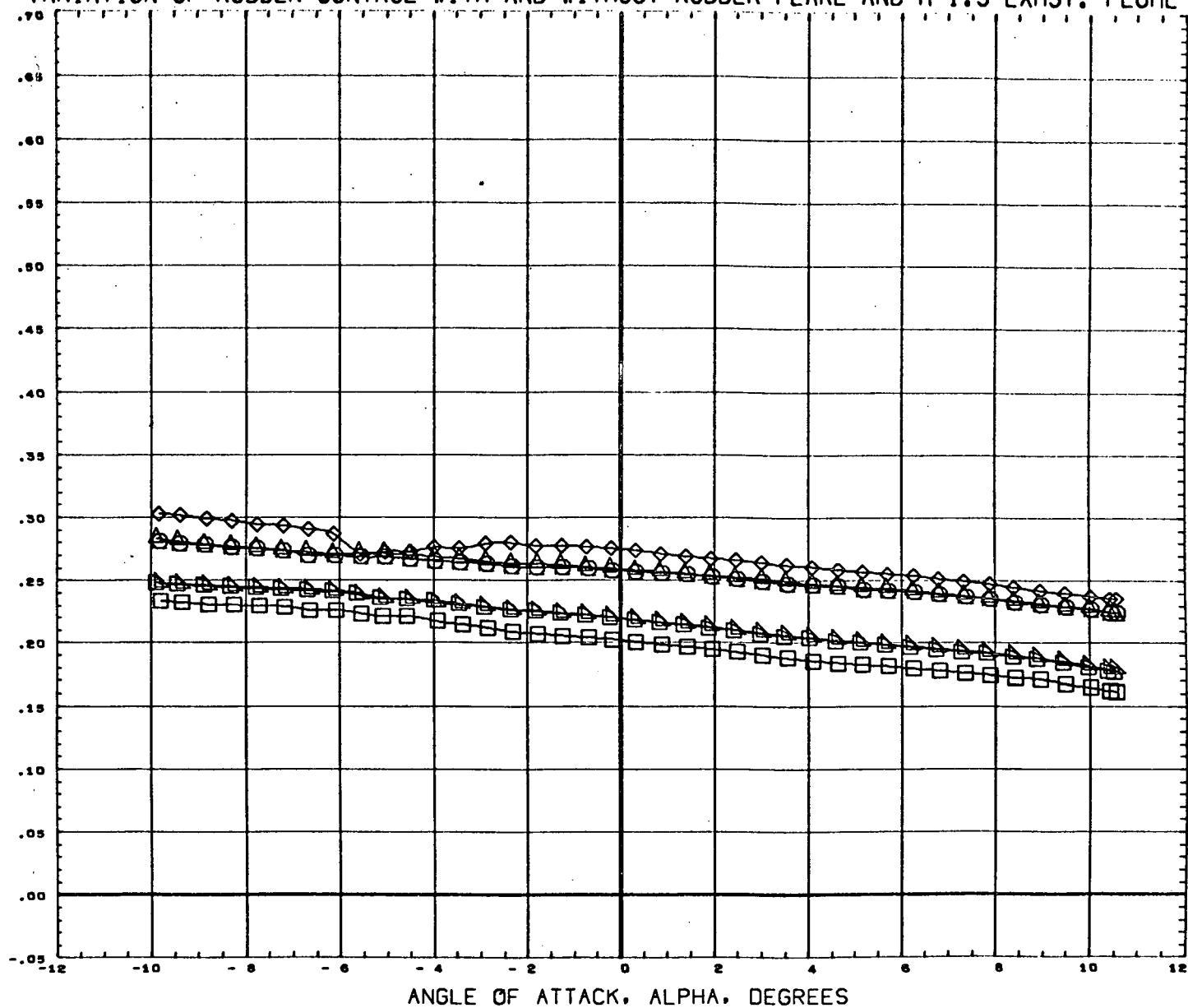
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE (T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 682.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP .557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

FOREBODY AXIAL FORCE COEFFICIENT, CAF

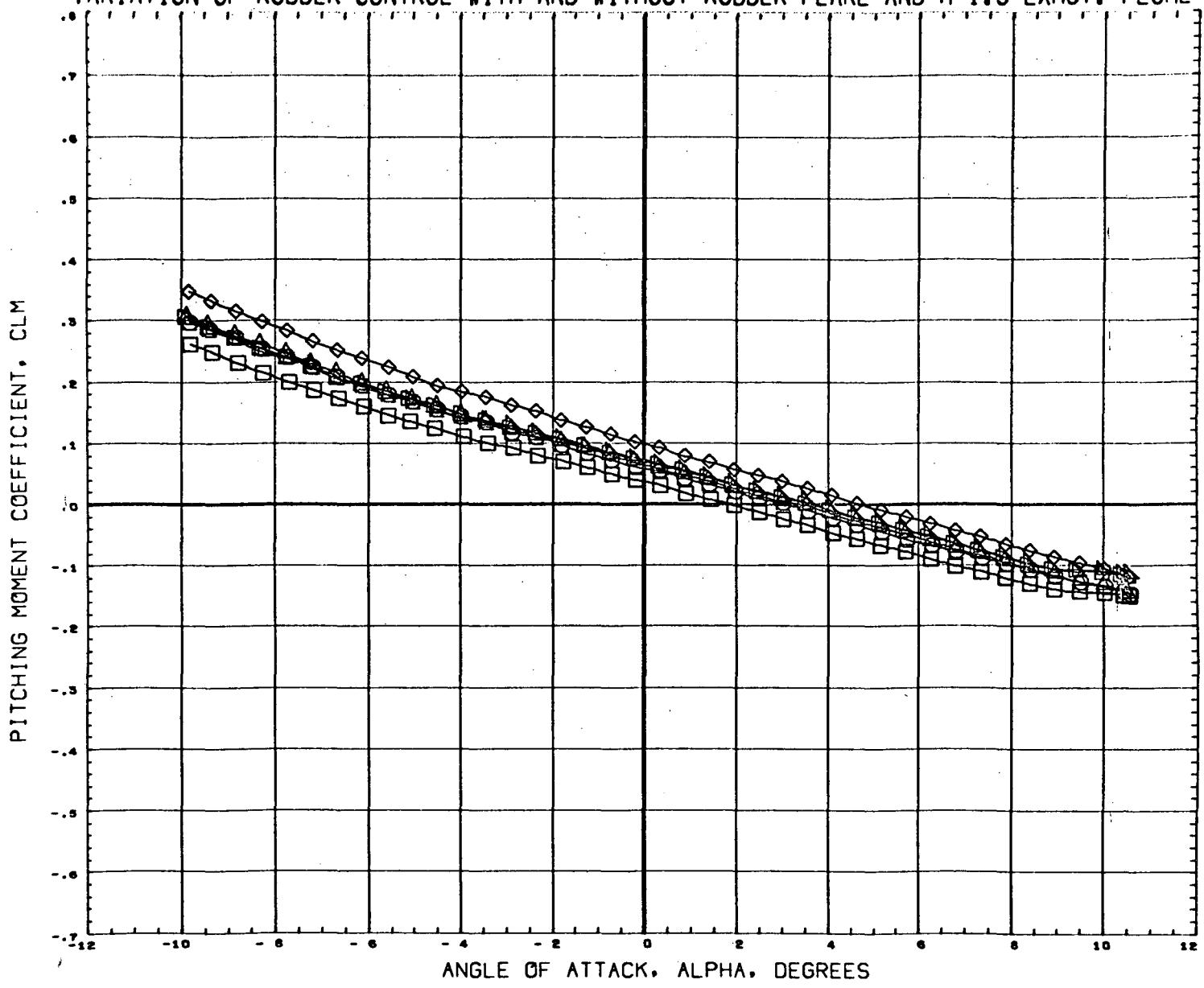


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

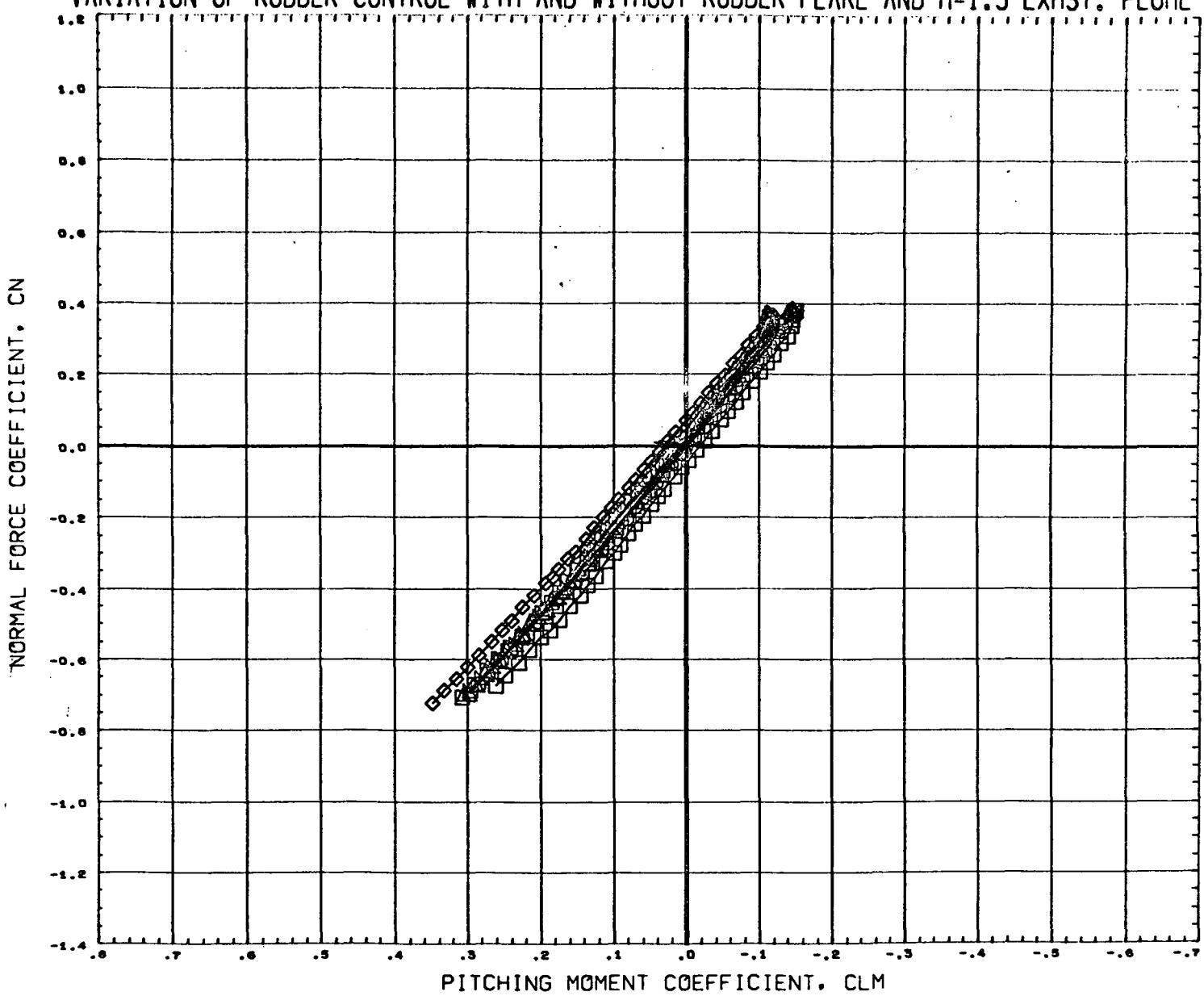


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

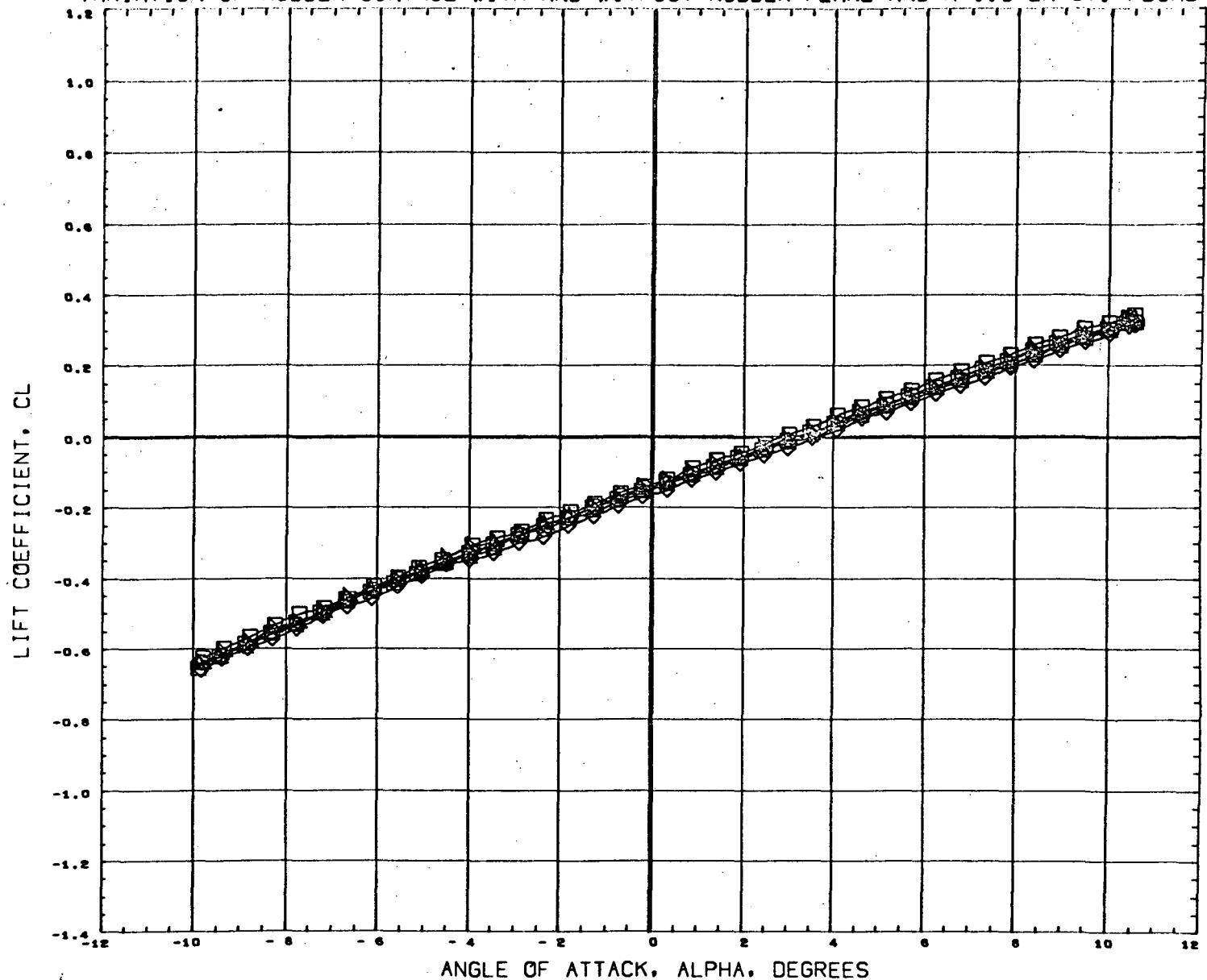


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

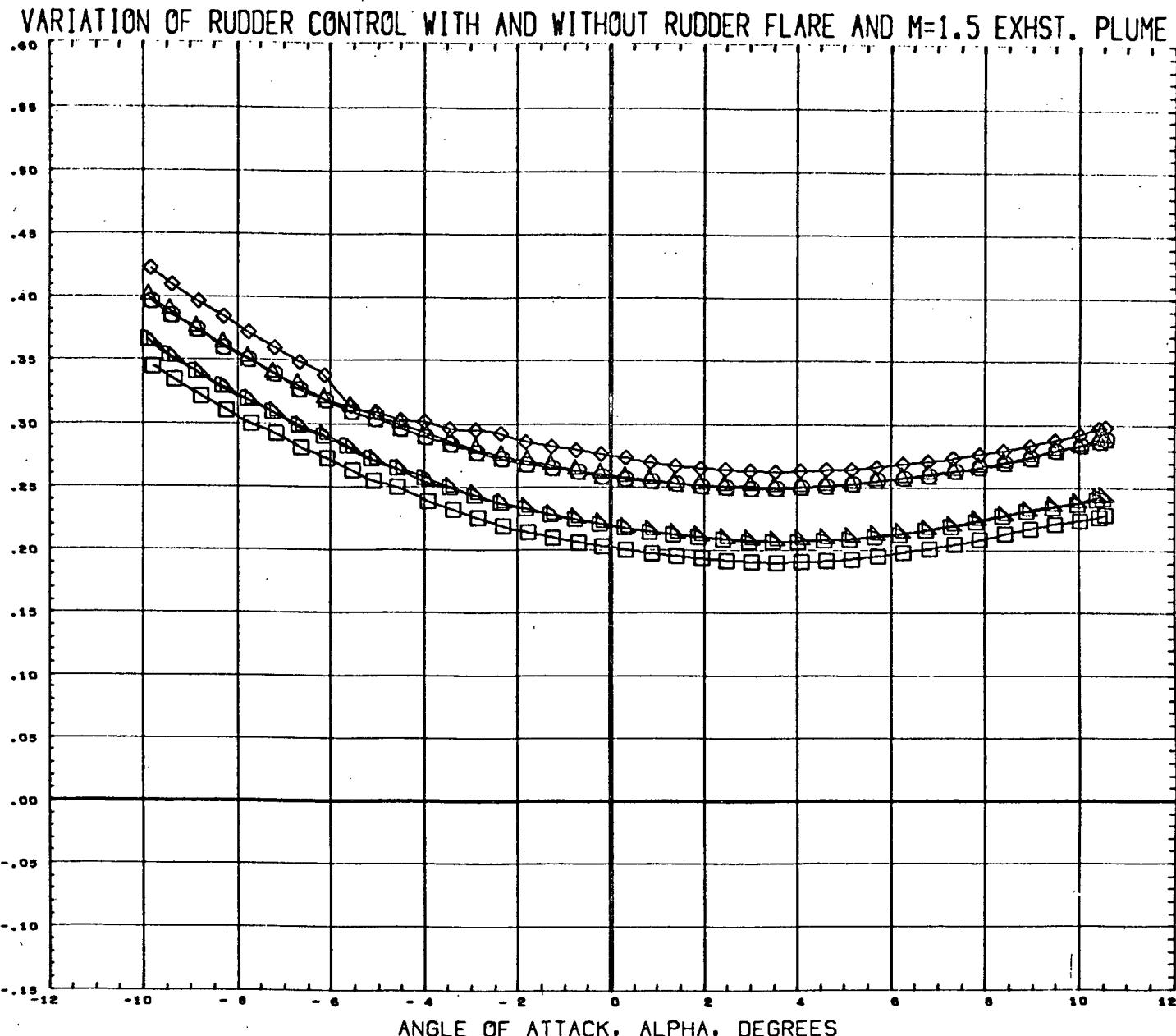


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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FOREBODY DRAG COEFFICIENT, CDF



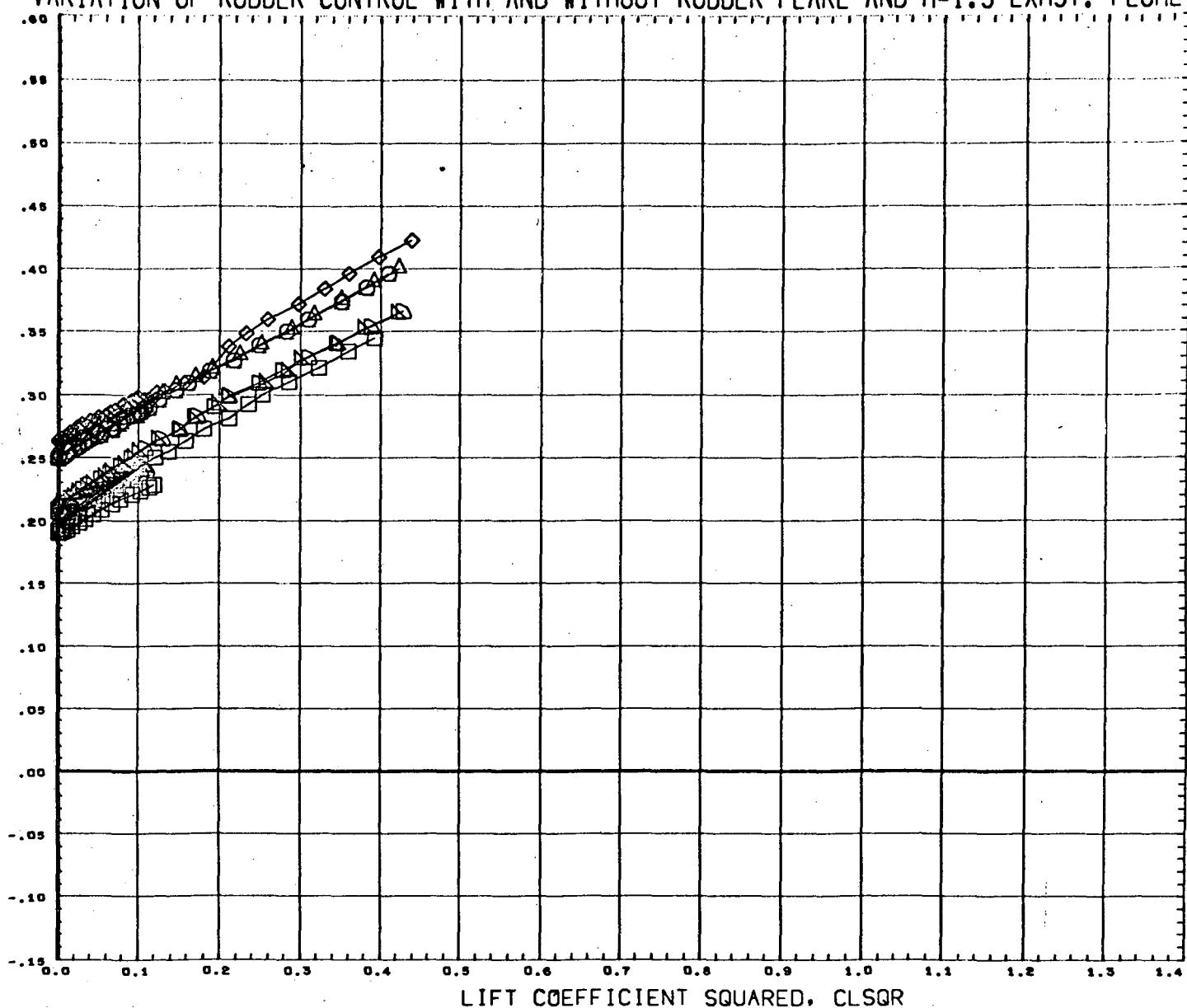
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

FOREBODY DRAG COEFFICIENT, CDF



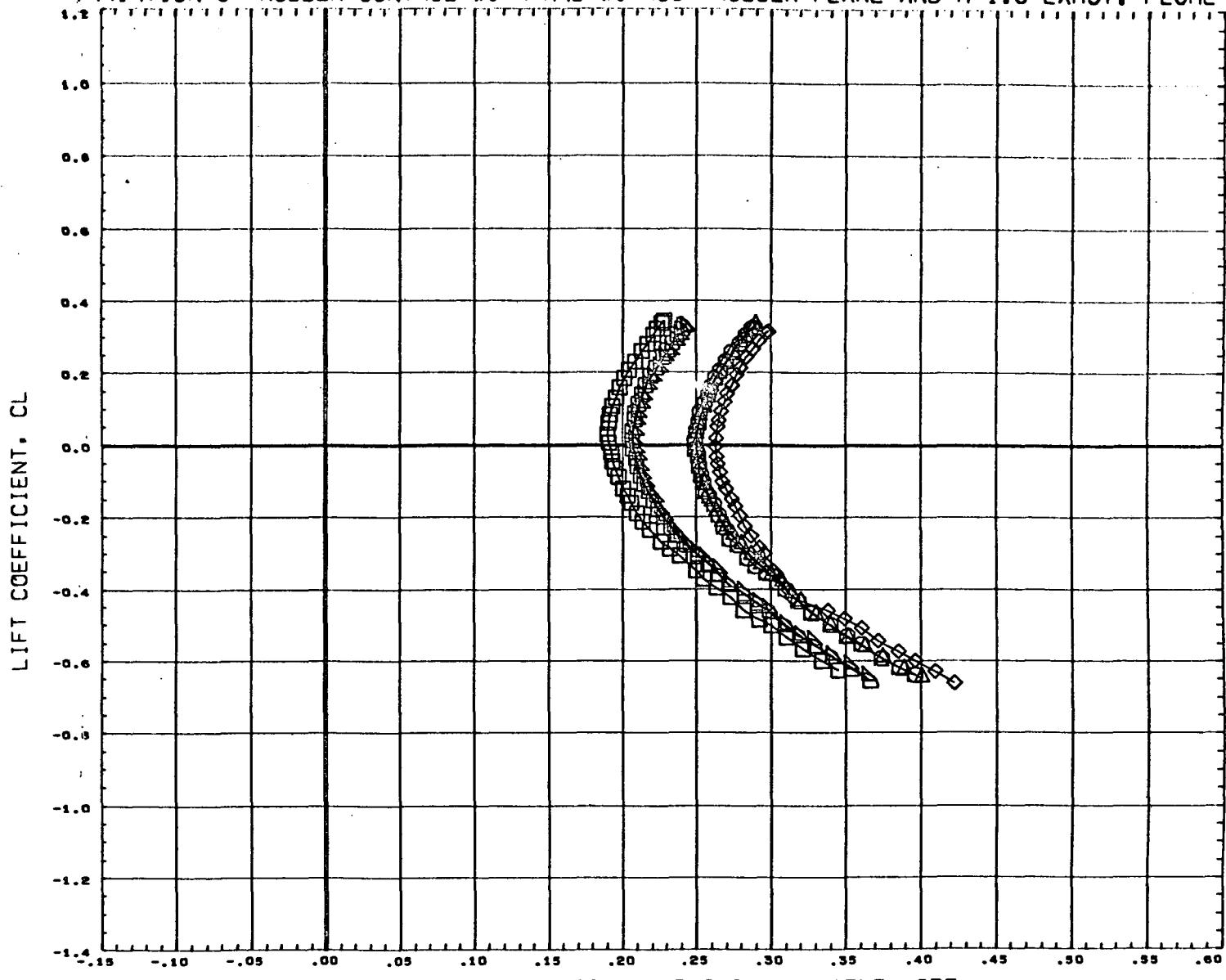
LIFT COEFFICIENT SQUARED, CLSQR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

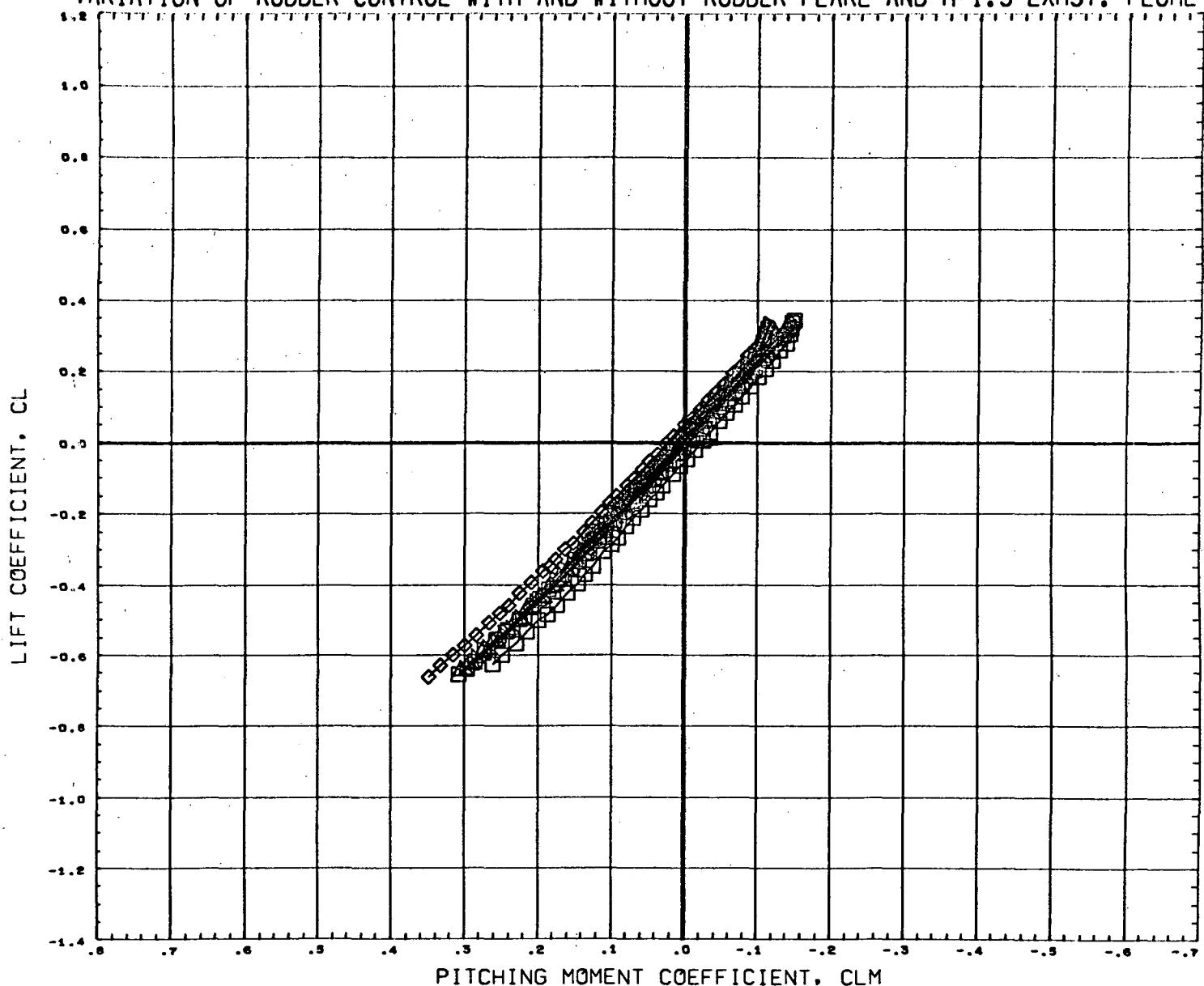


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XNRP	537.0004 IN.
(CD75A3)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YNRP	0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZHNP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

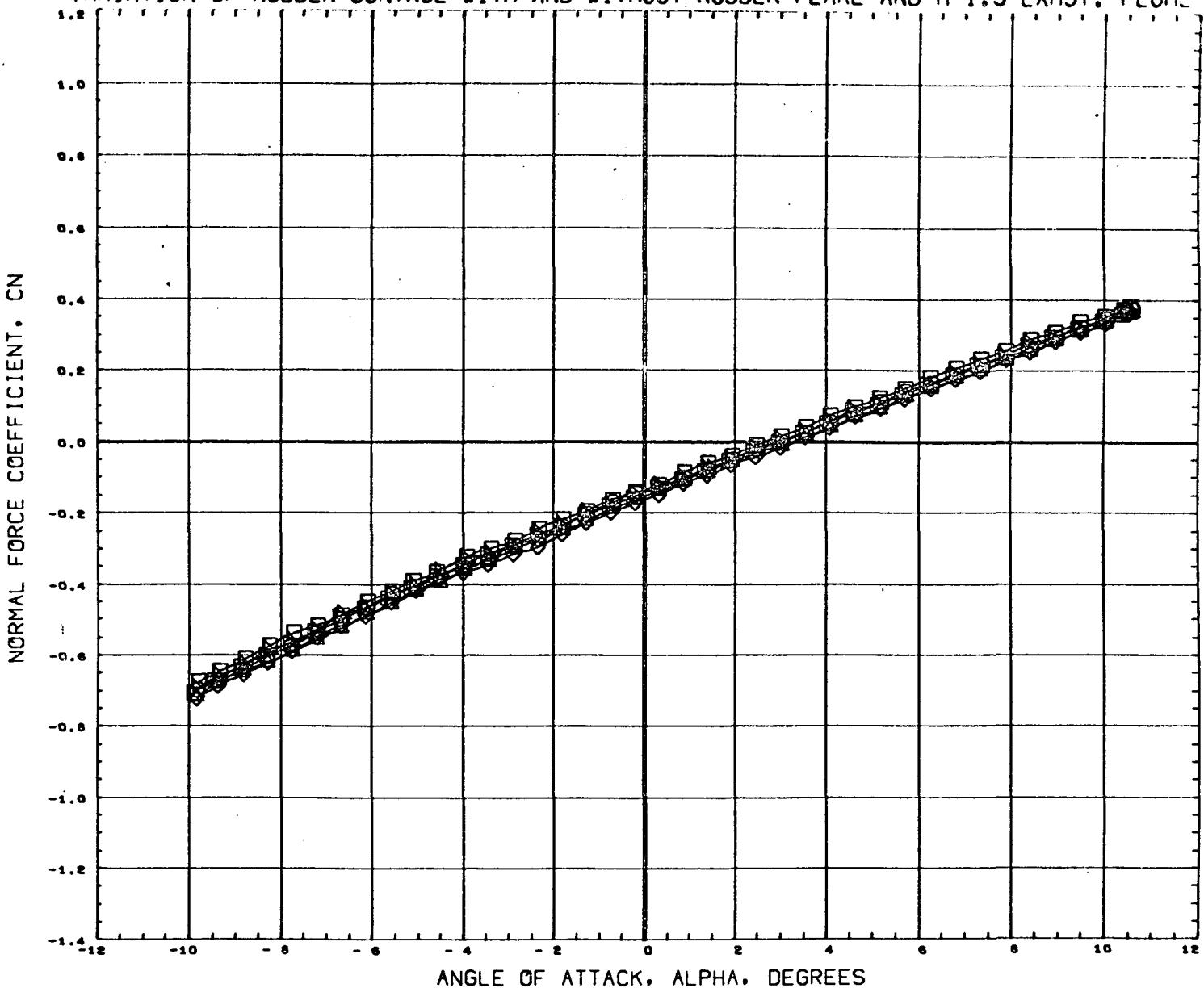


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP	537.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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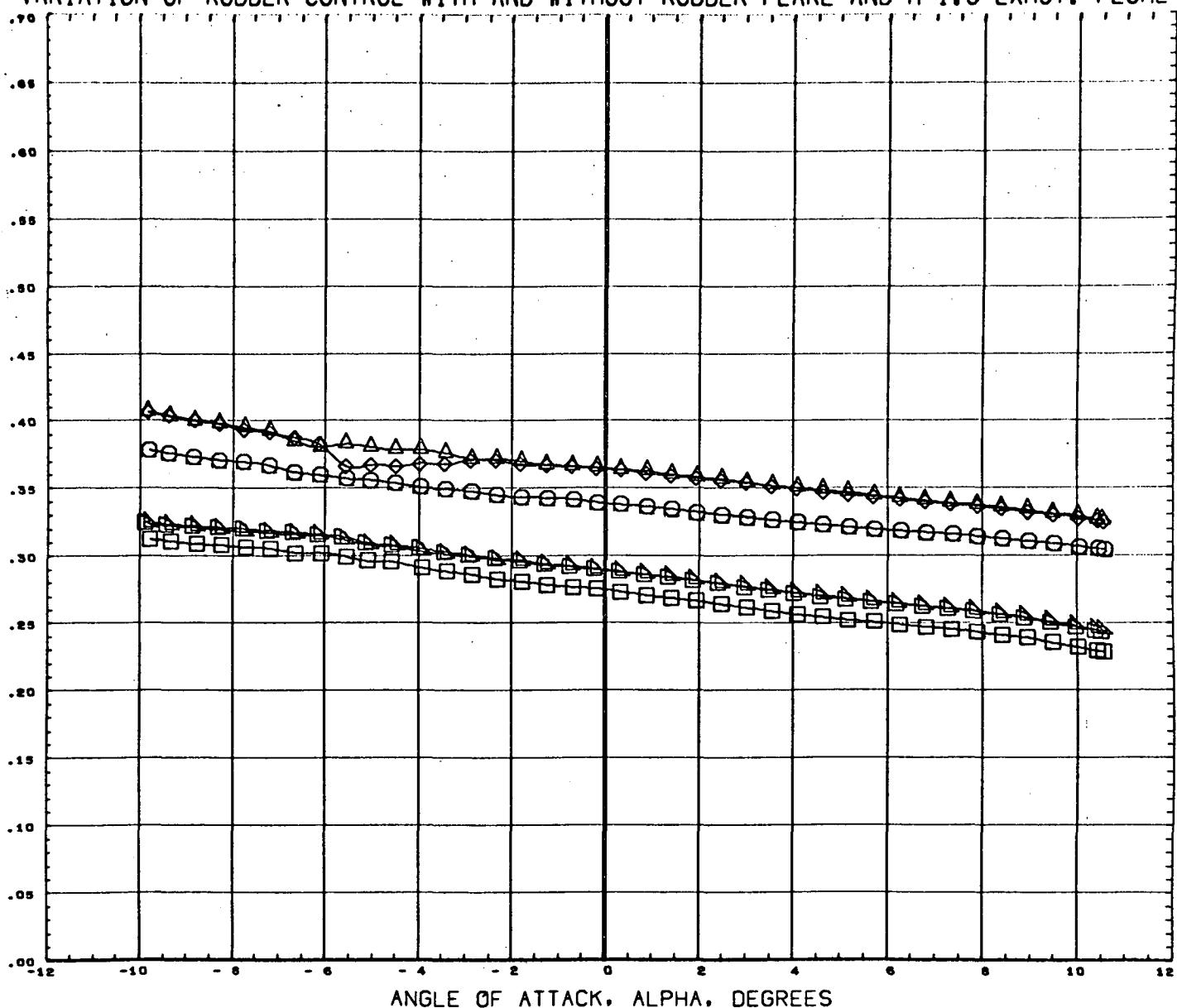
VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

AXIAL FORCE COEFFICIENT, CA



ANGLE OF ATTACK, ALPHA, DEGREES

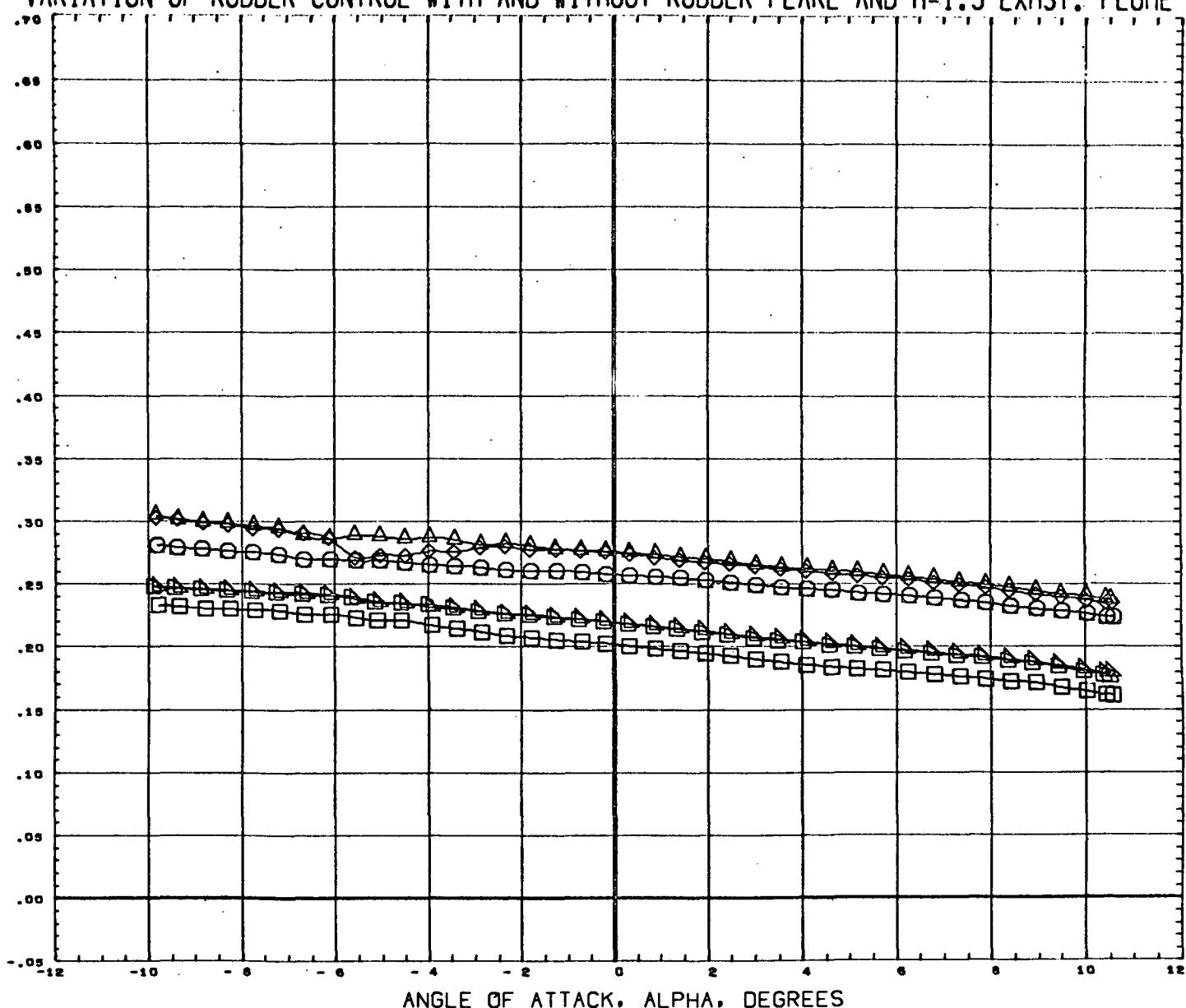
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

FOREBODY AXIAL FORCE COEFFICIENT, CAF



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

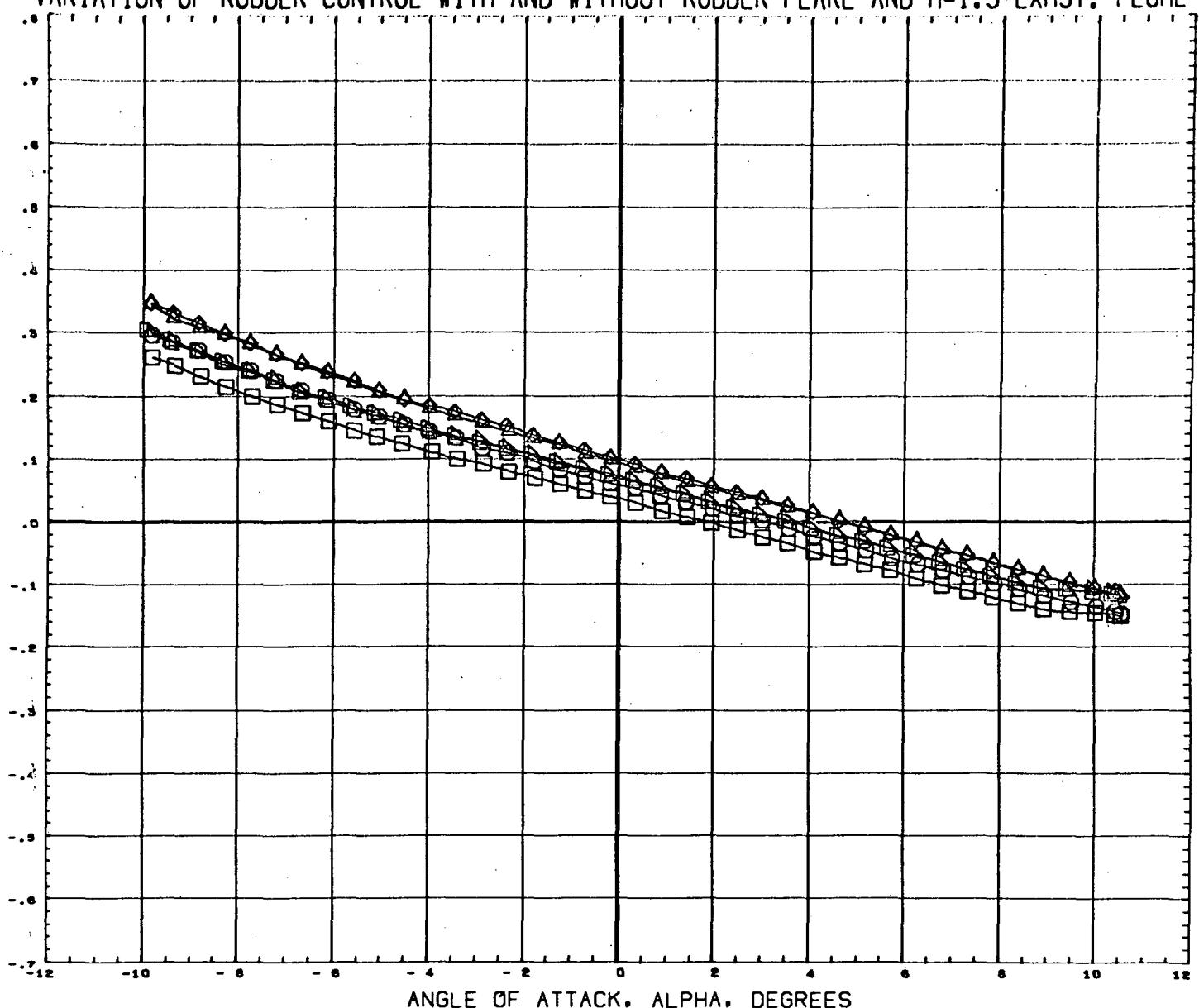
MACH

1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

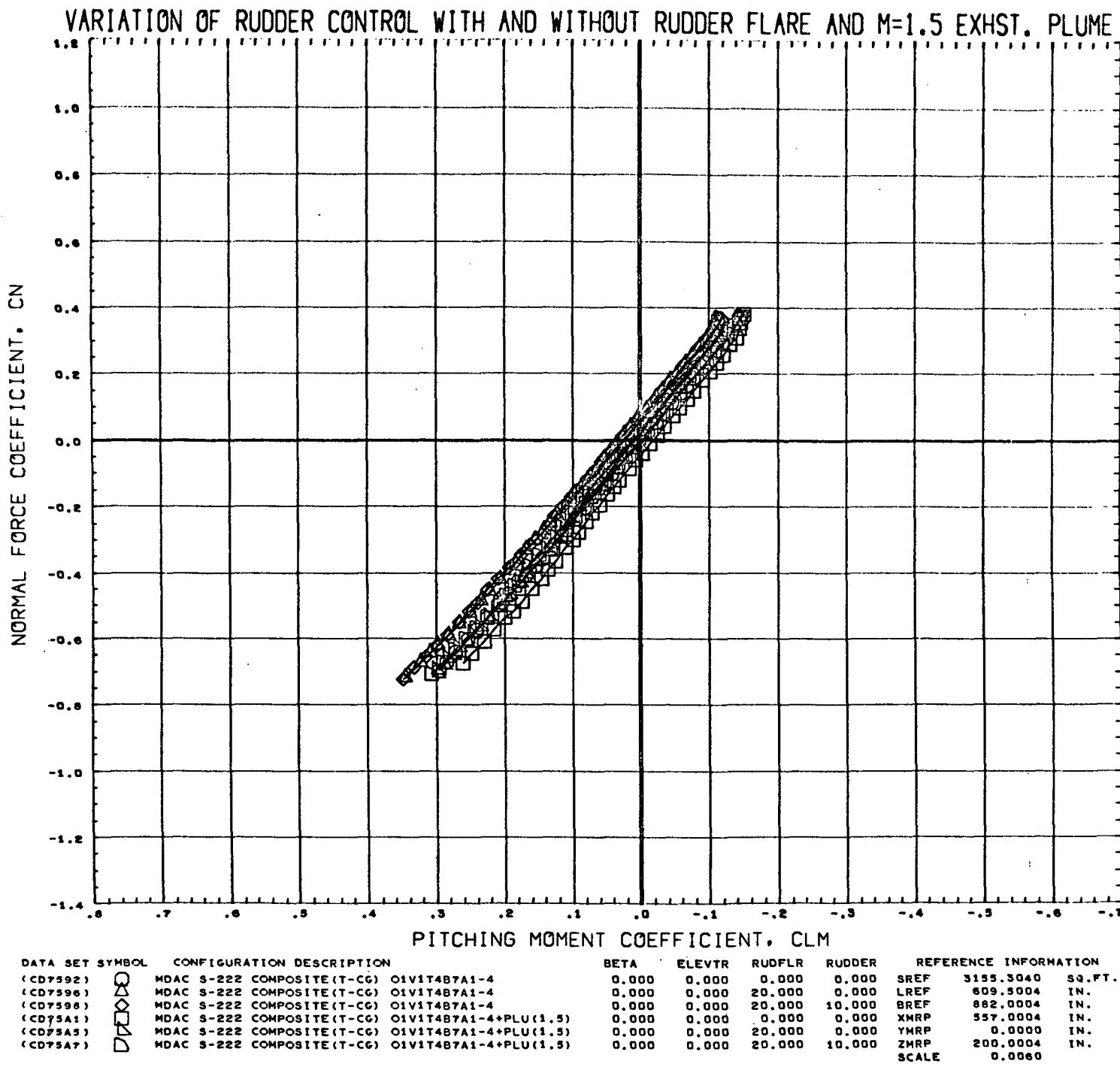
PITCHING MOMENT COEFFICIENT. CLM



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION	
						SREF 3155.3040 SQ.FT.	LREF 609.5004 IN.
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040	SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004	IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004	IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004	IN.
(CD75A3)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000	IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004	IN.
						SCALE 0.0060	

MACH 1.51

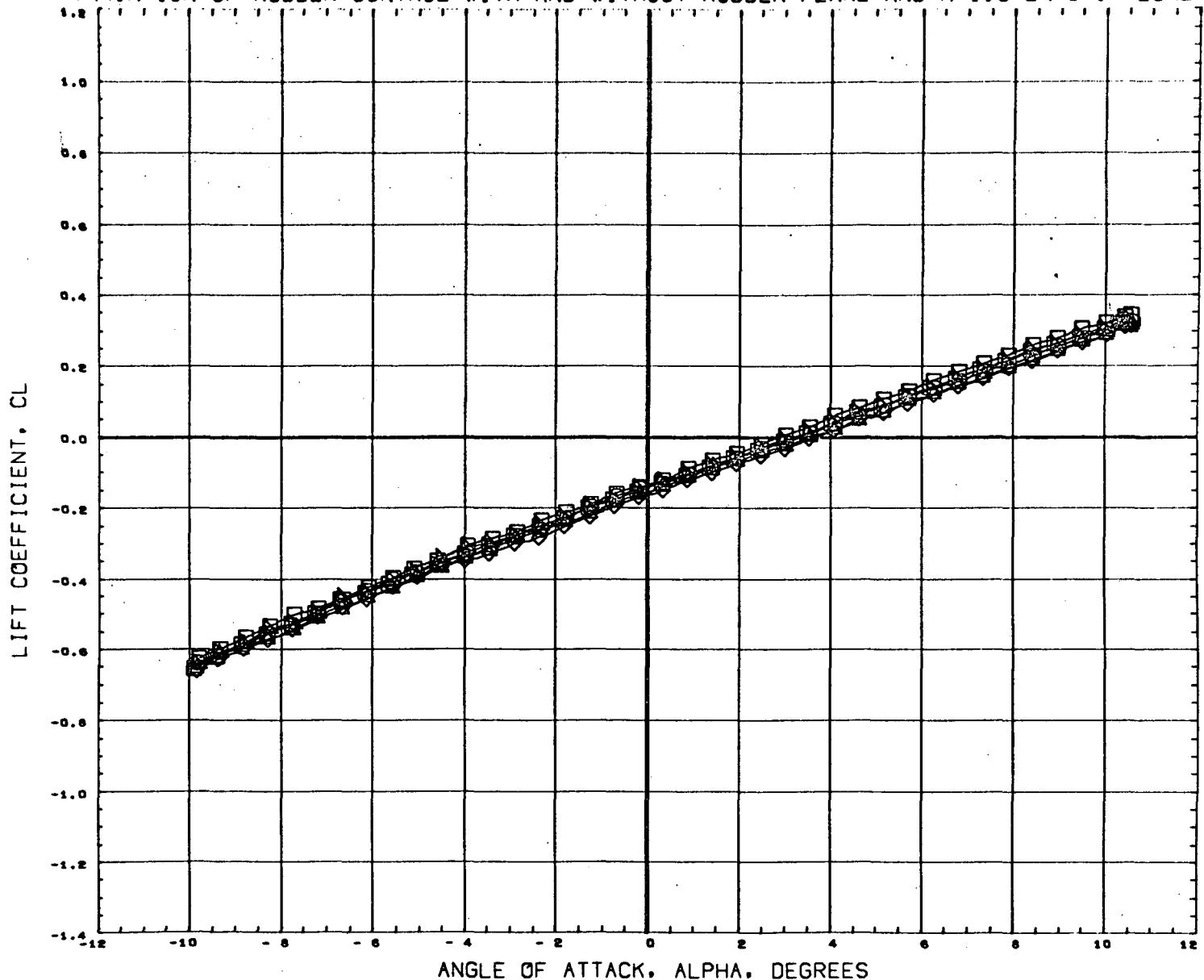
PAGE 275



MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME



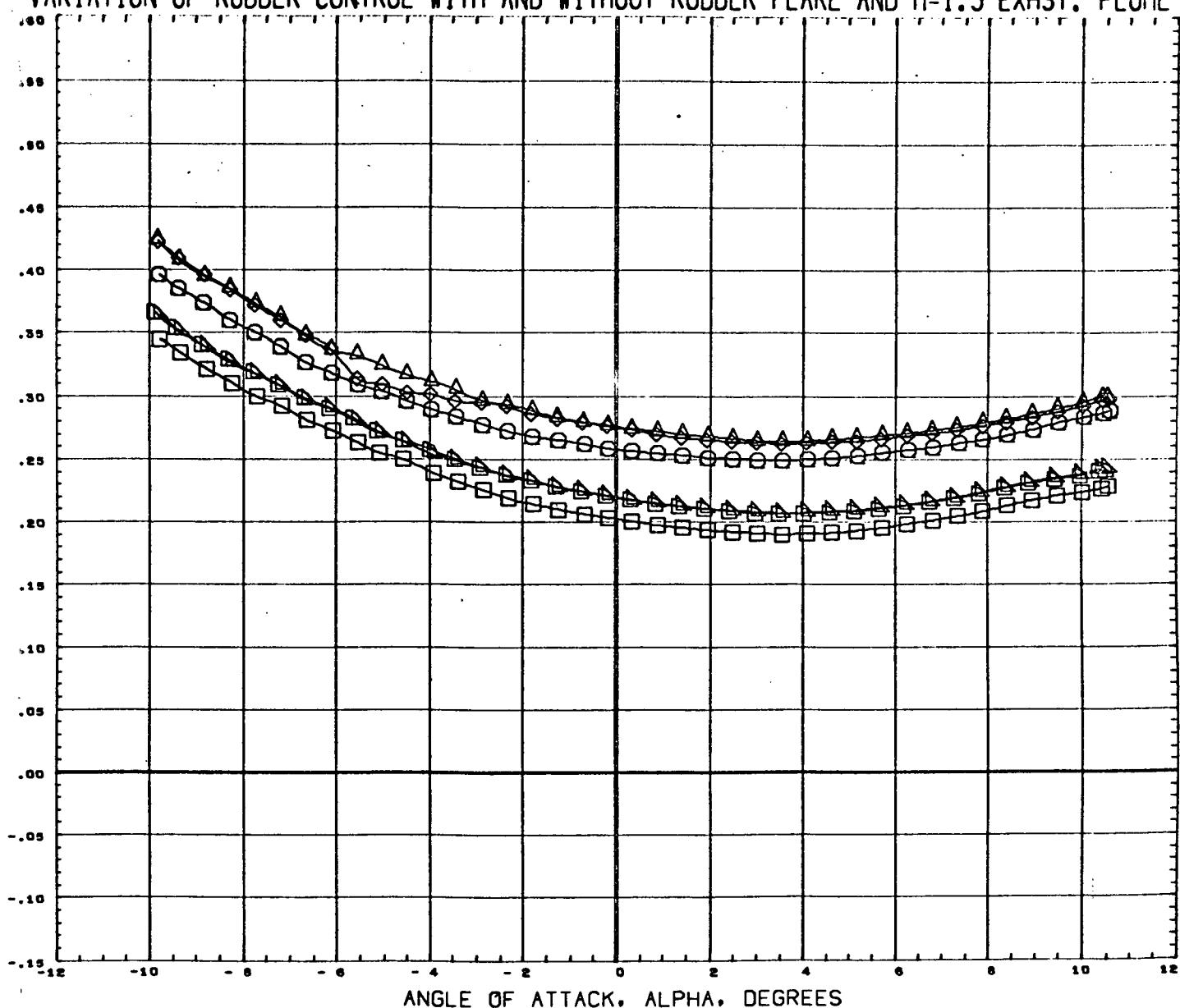
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

FOREBODY DRAG COEFFICIENT, CDF



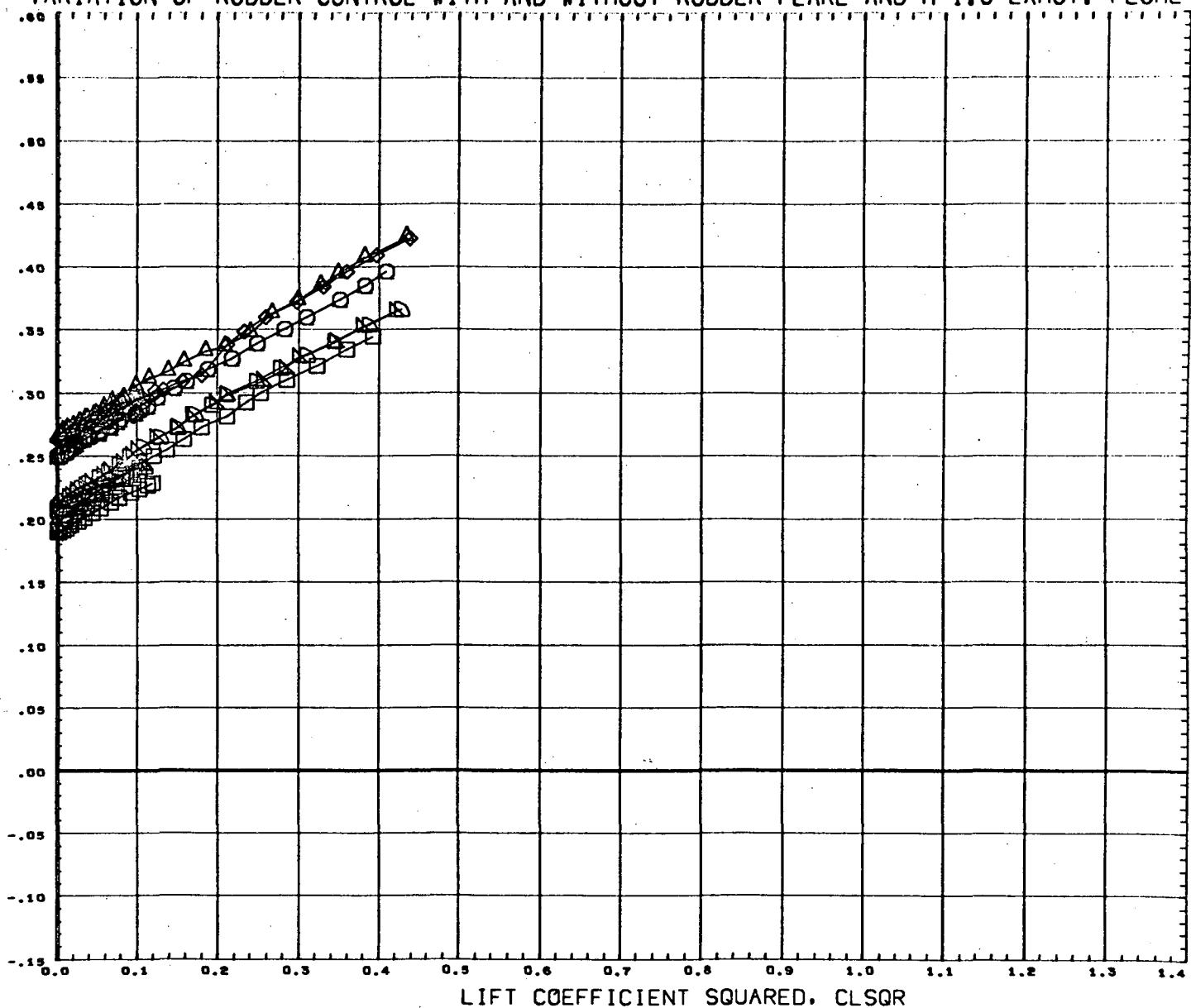
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 682.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

FOREBODY DRAG COEFFICIENT. CDF



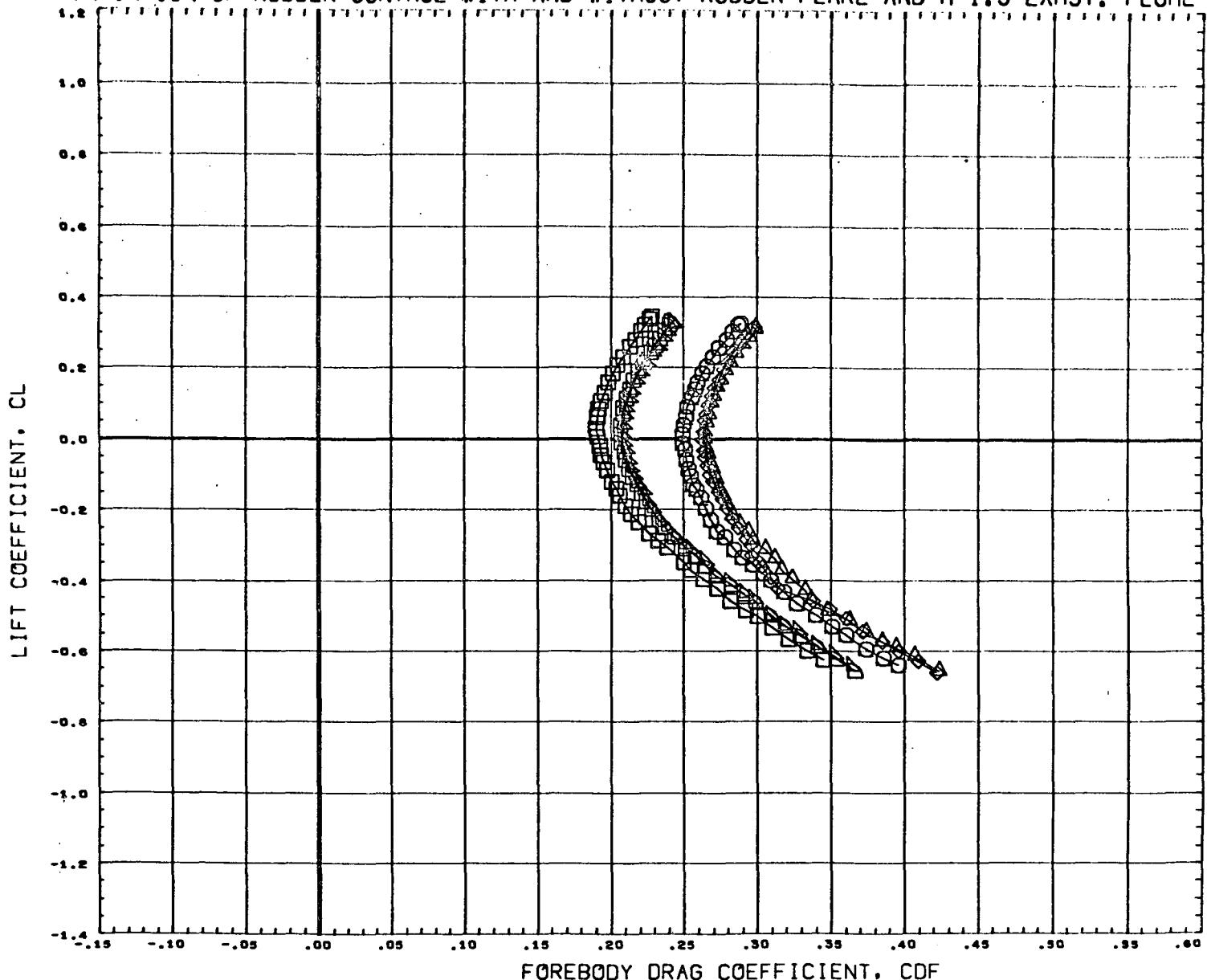
LIFT COEFFICIENT SQUARED, CL²

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

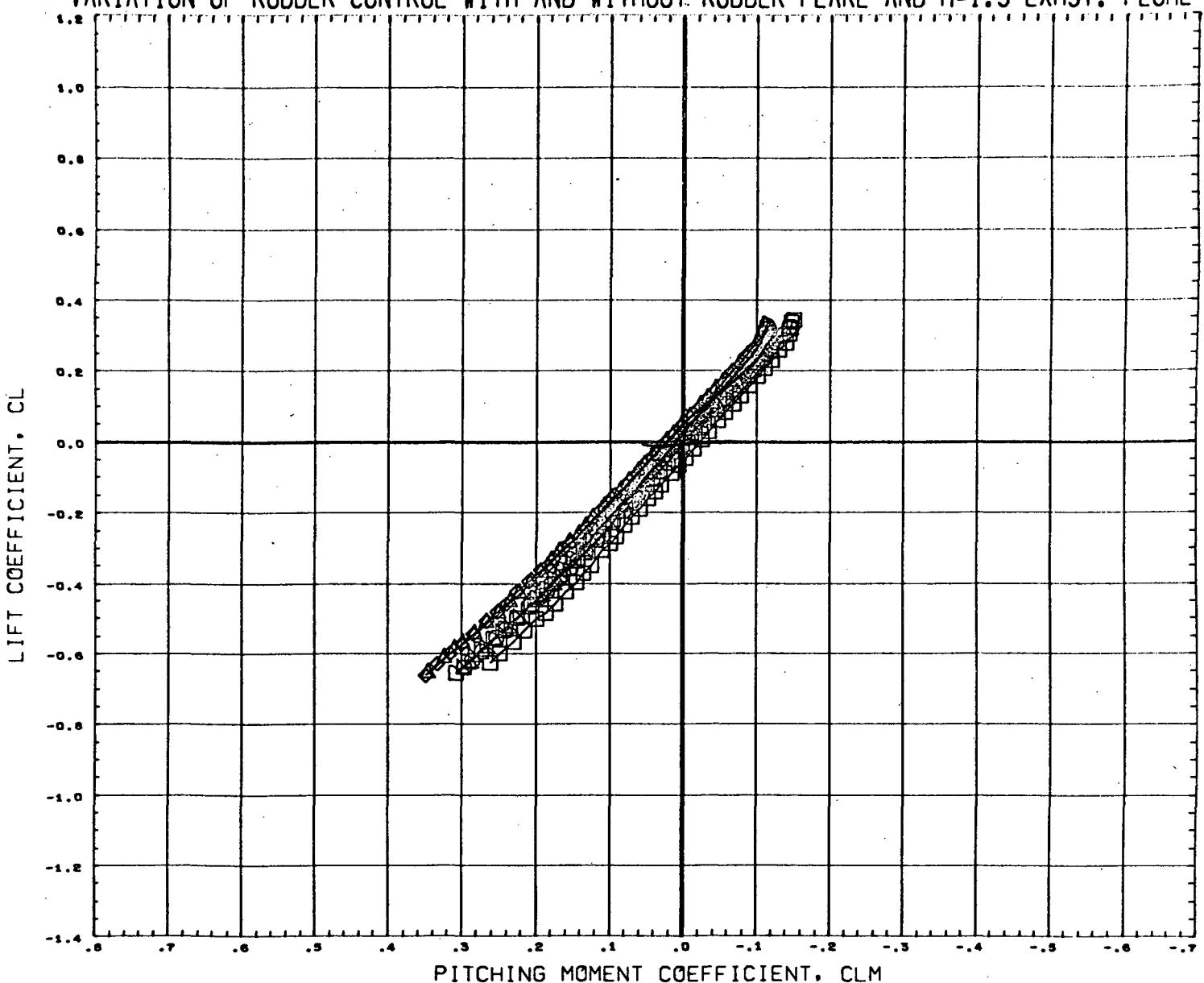
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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75AT)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=1.5 EXHST. PLUME

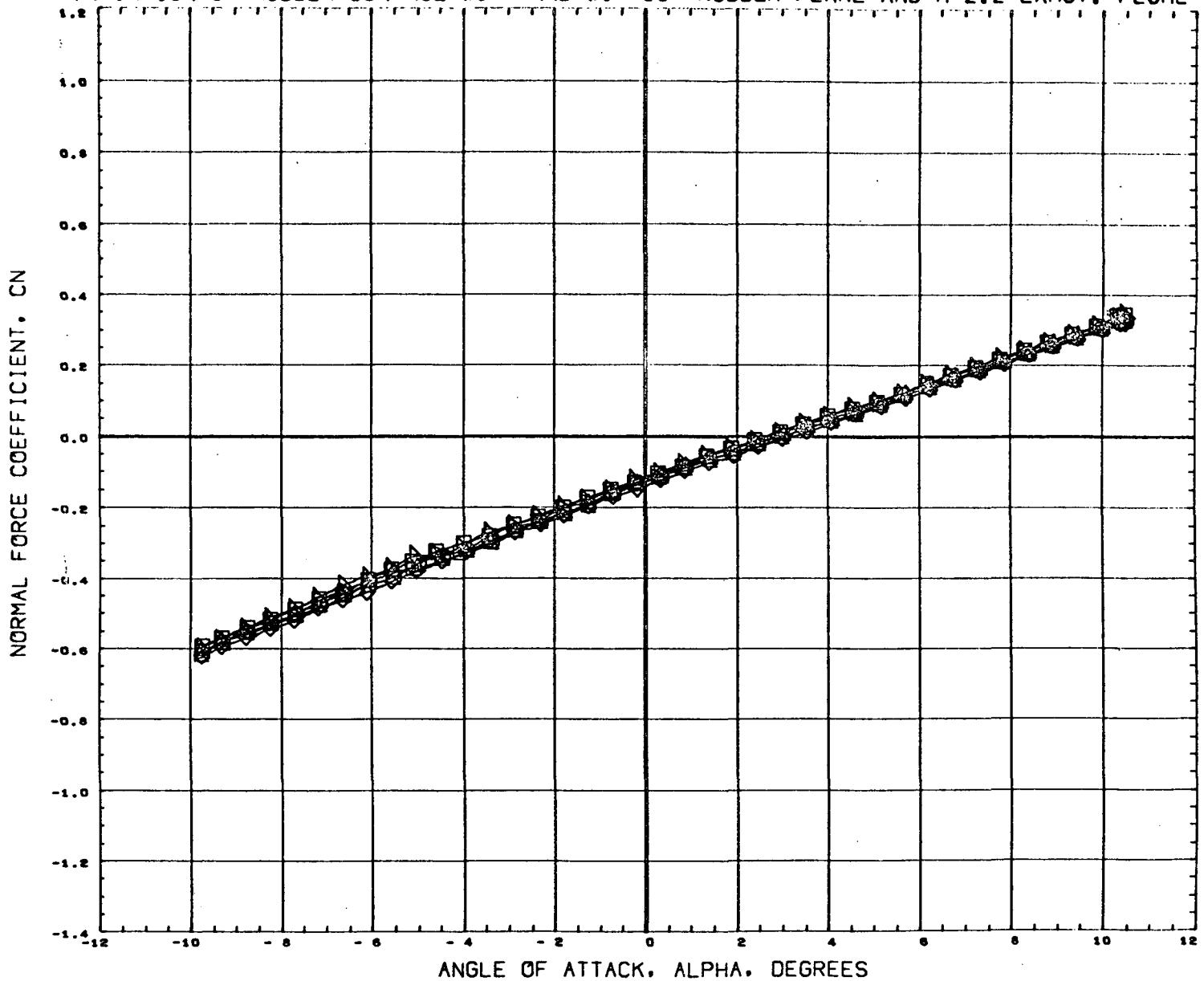


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD75A1)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD75A5)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD75A7)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(1.5)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.51

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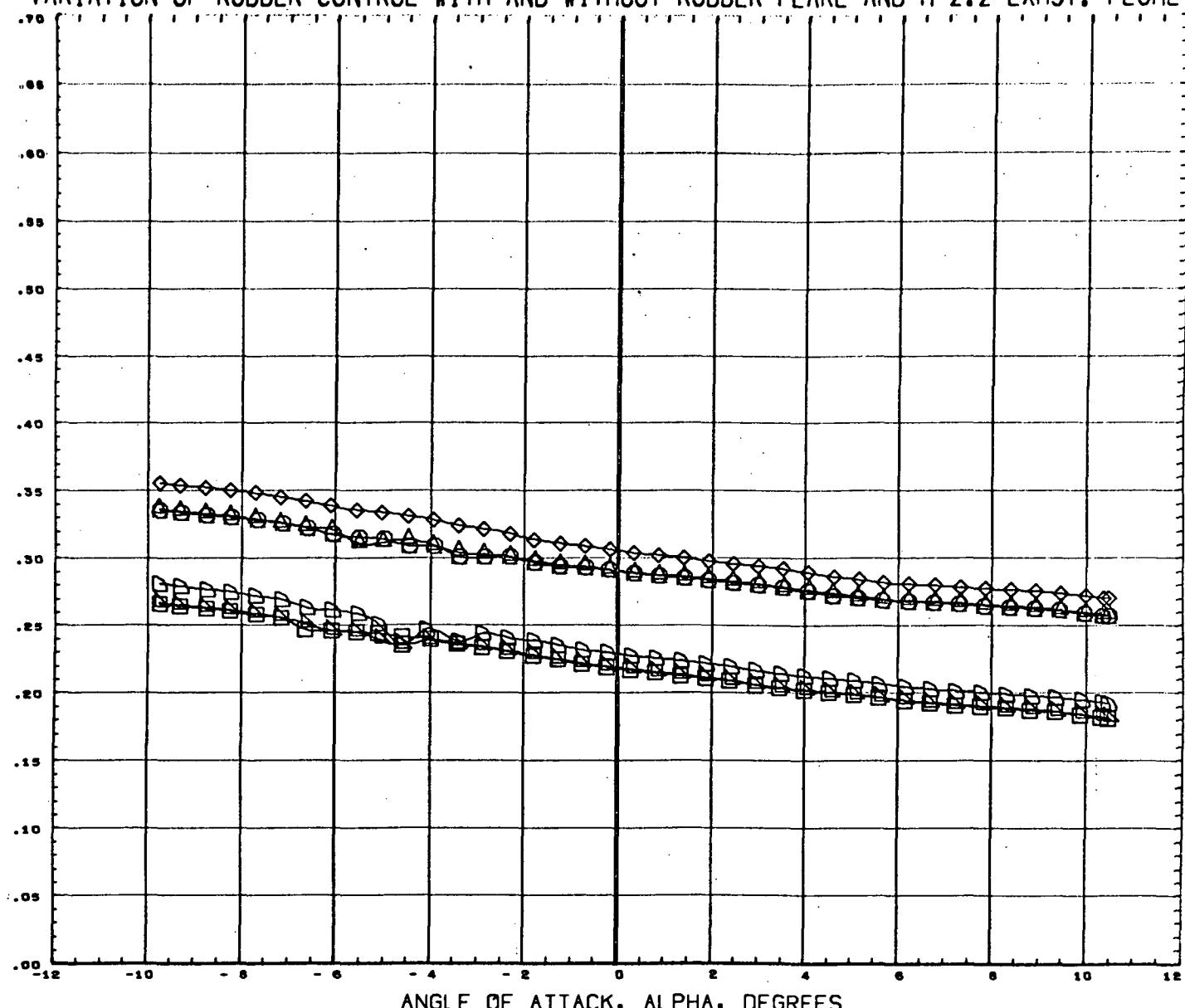
VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

AXIAL FORCE COEFFICIENT, CA

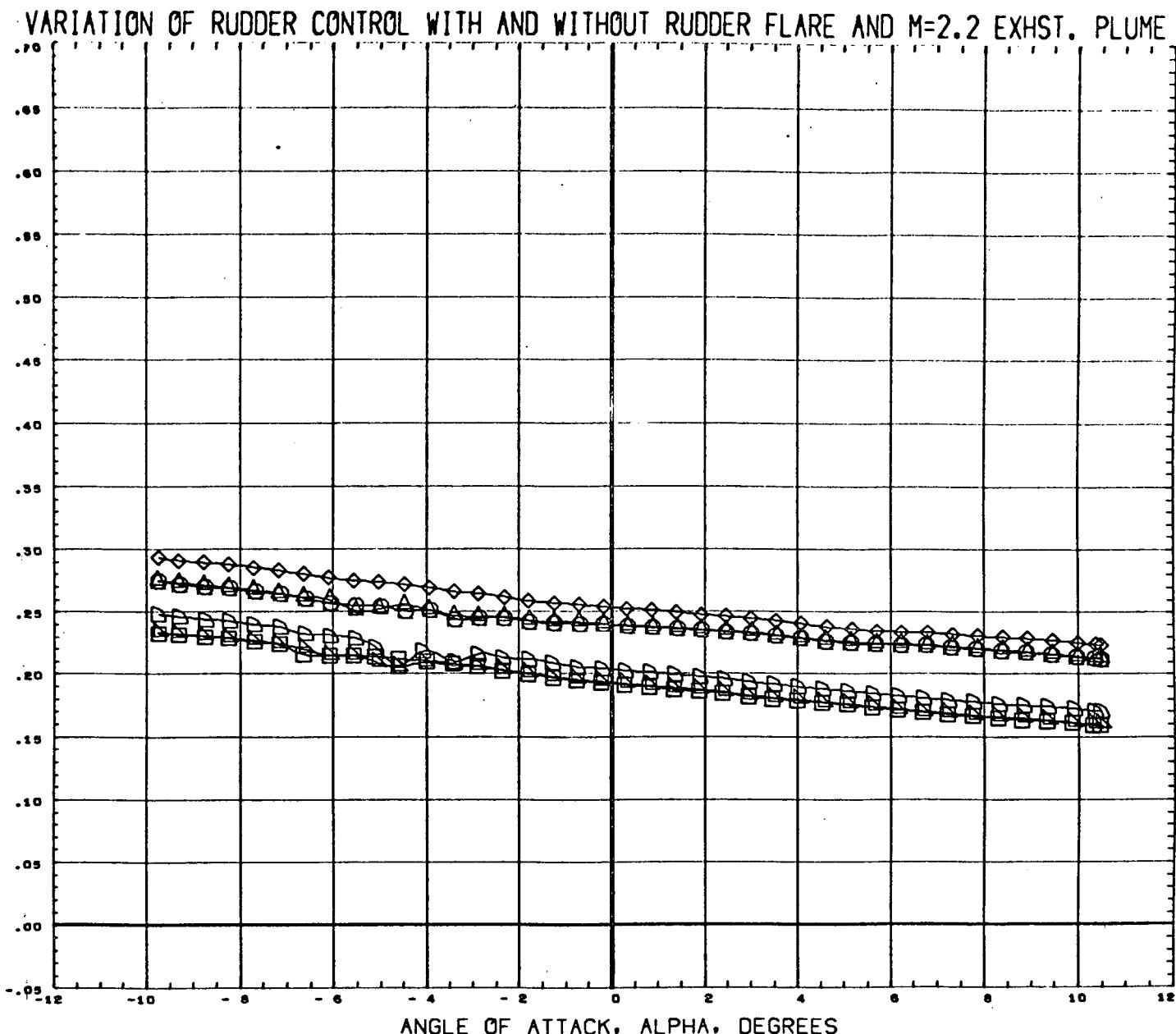


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE (T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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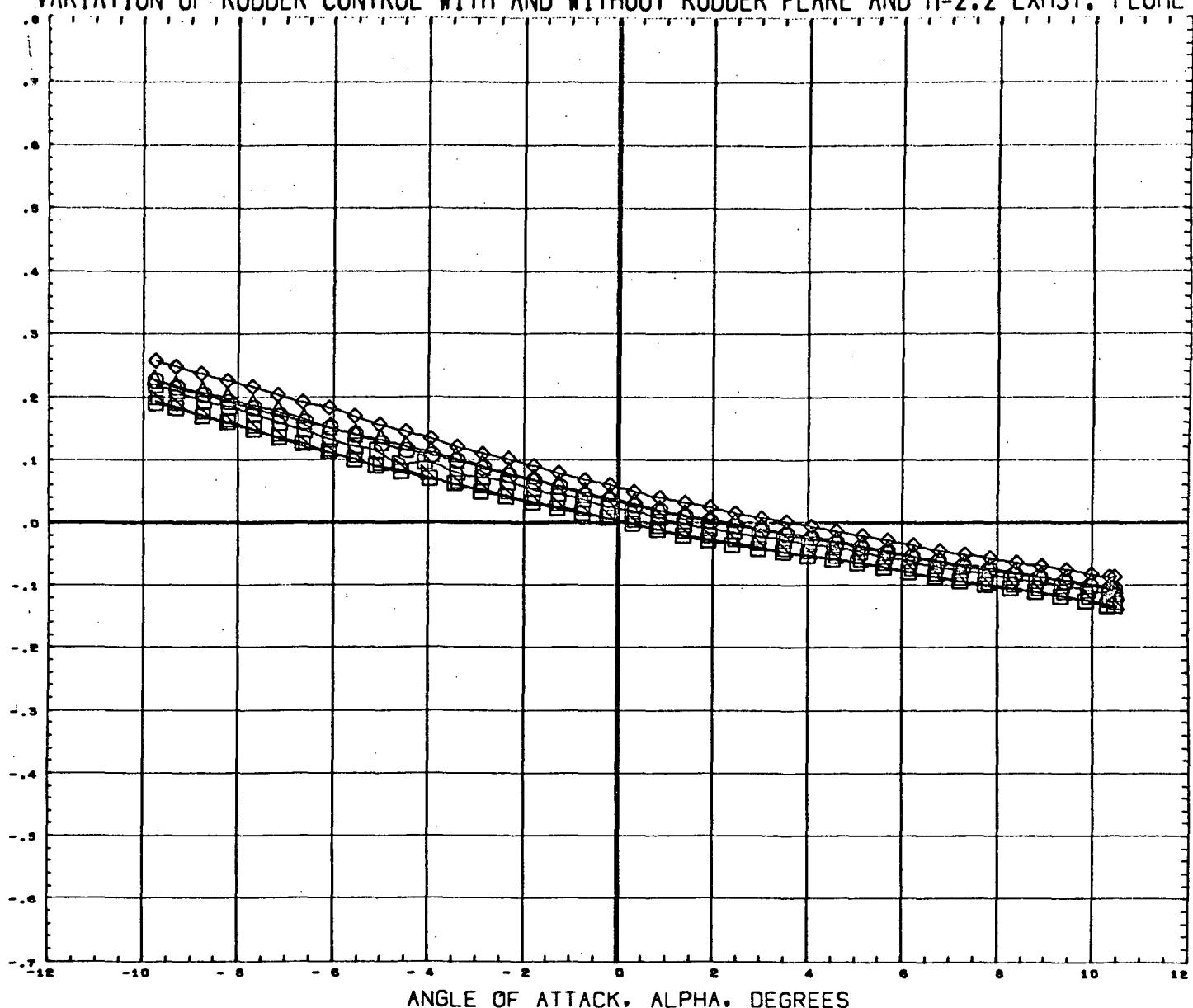
FOREBODY AXIAL FORCE COEFFICIENT, CAF



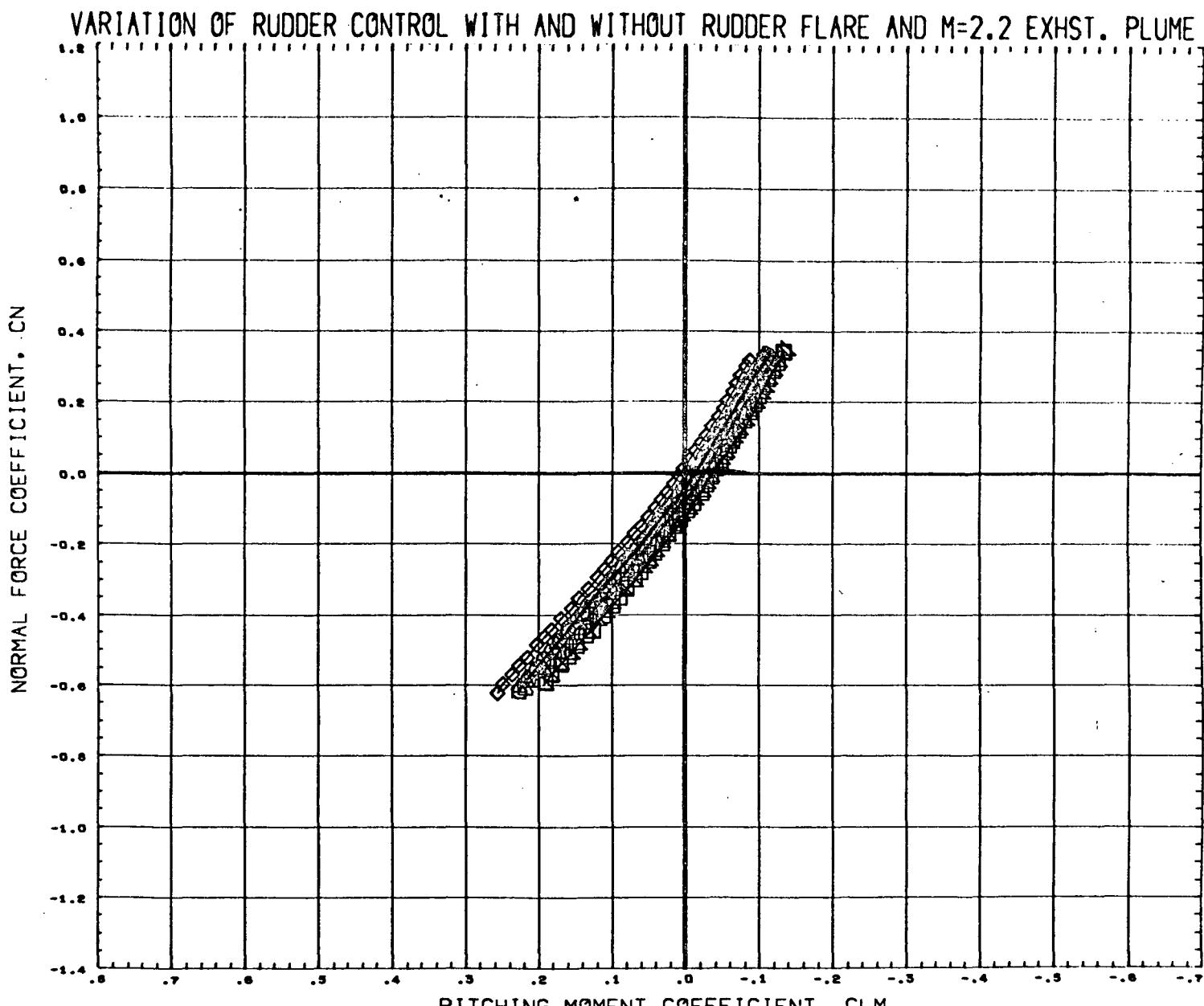
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	682.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP	0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

PITCHING MOMENT COEFFICIENT, CLM



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

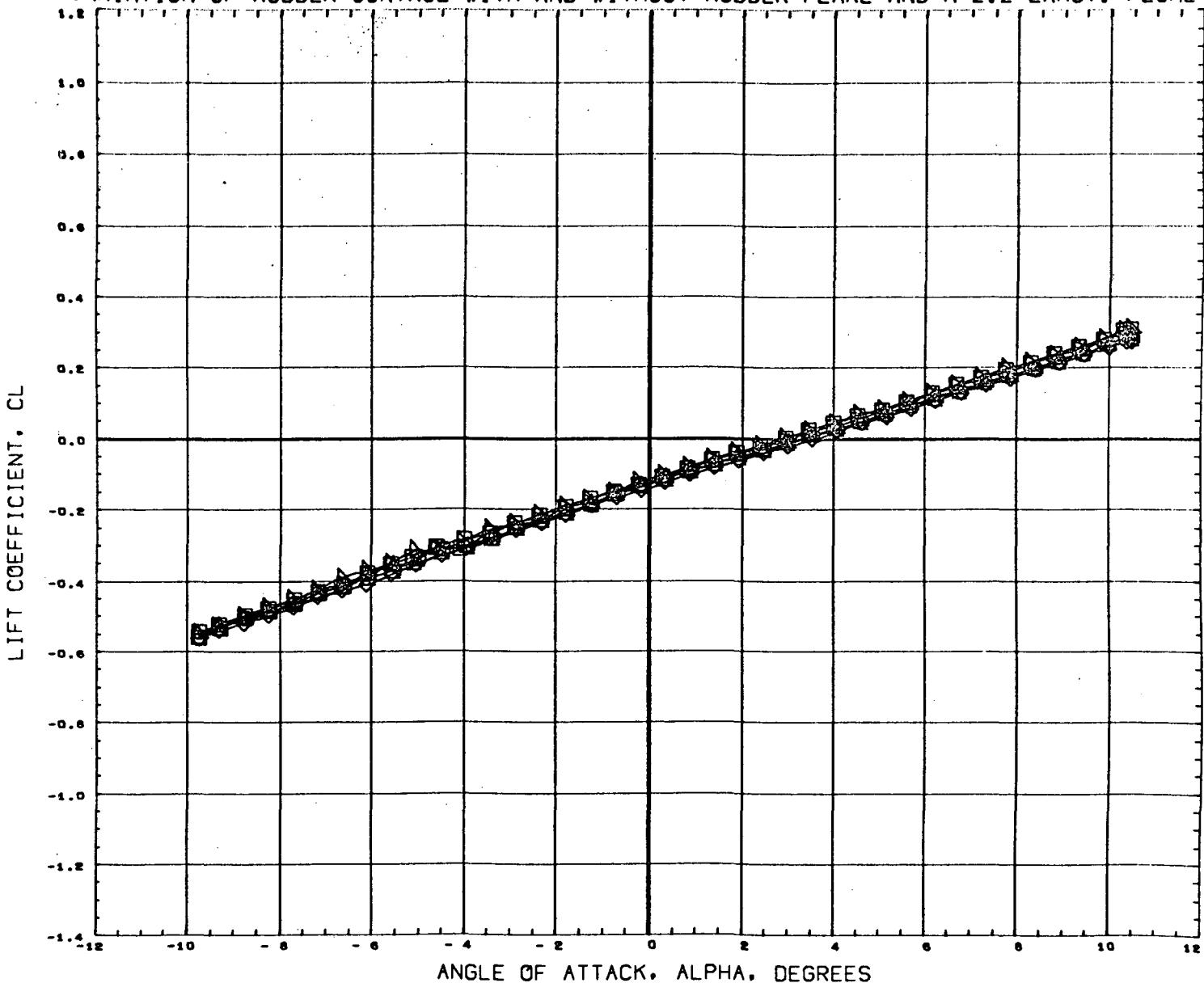


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	D <small>○</small>	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7594)	D <small>○</small>	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
(CD7598)	D <small>○</small>	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	682.0004 IN.
(CD7581)	D <small>○</small>	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD7583)	D <small>○</small>	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP	0.0000 IN.
(CD7587)	D <small>○</small>	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME



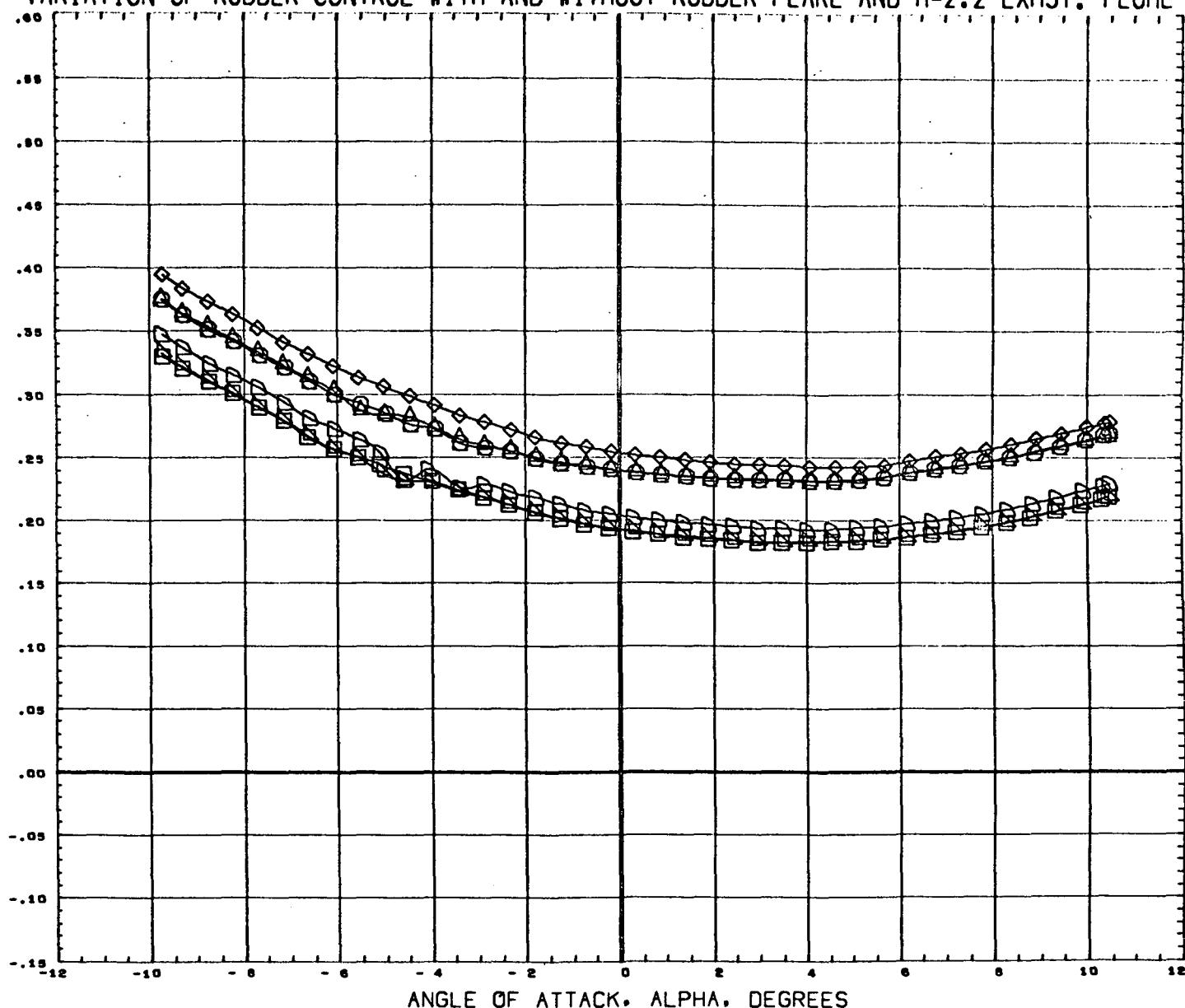
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

FOREBODY DRAG COEFFICIENT. CDF



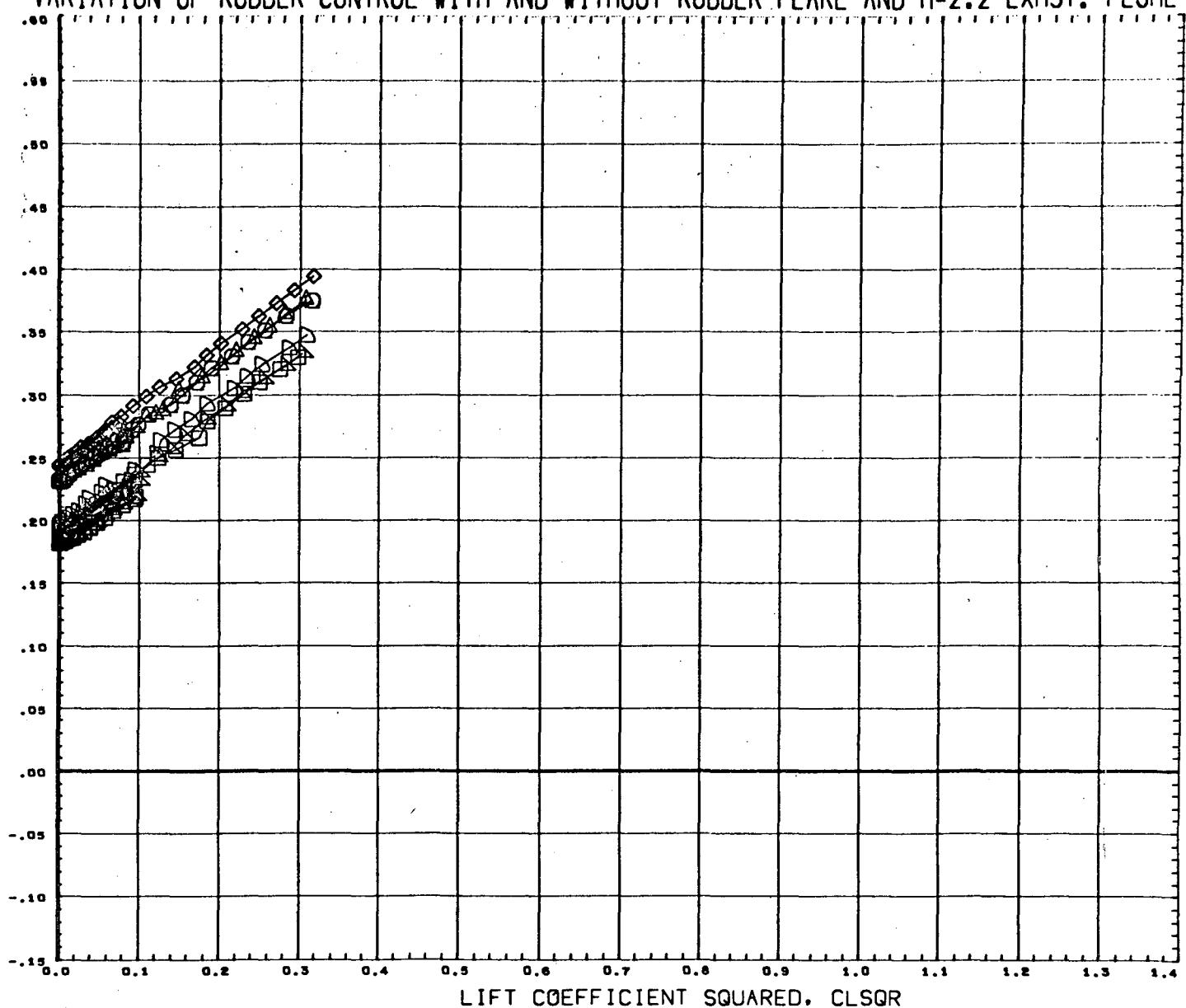
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE (T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE (T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

FOREBODY DRAG COEFFICIENT. CDF



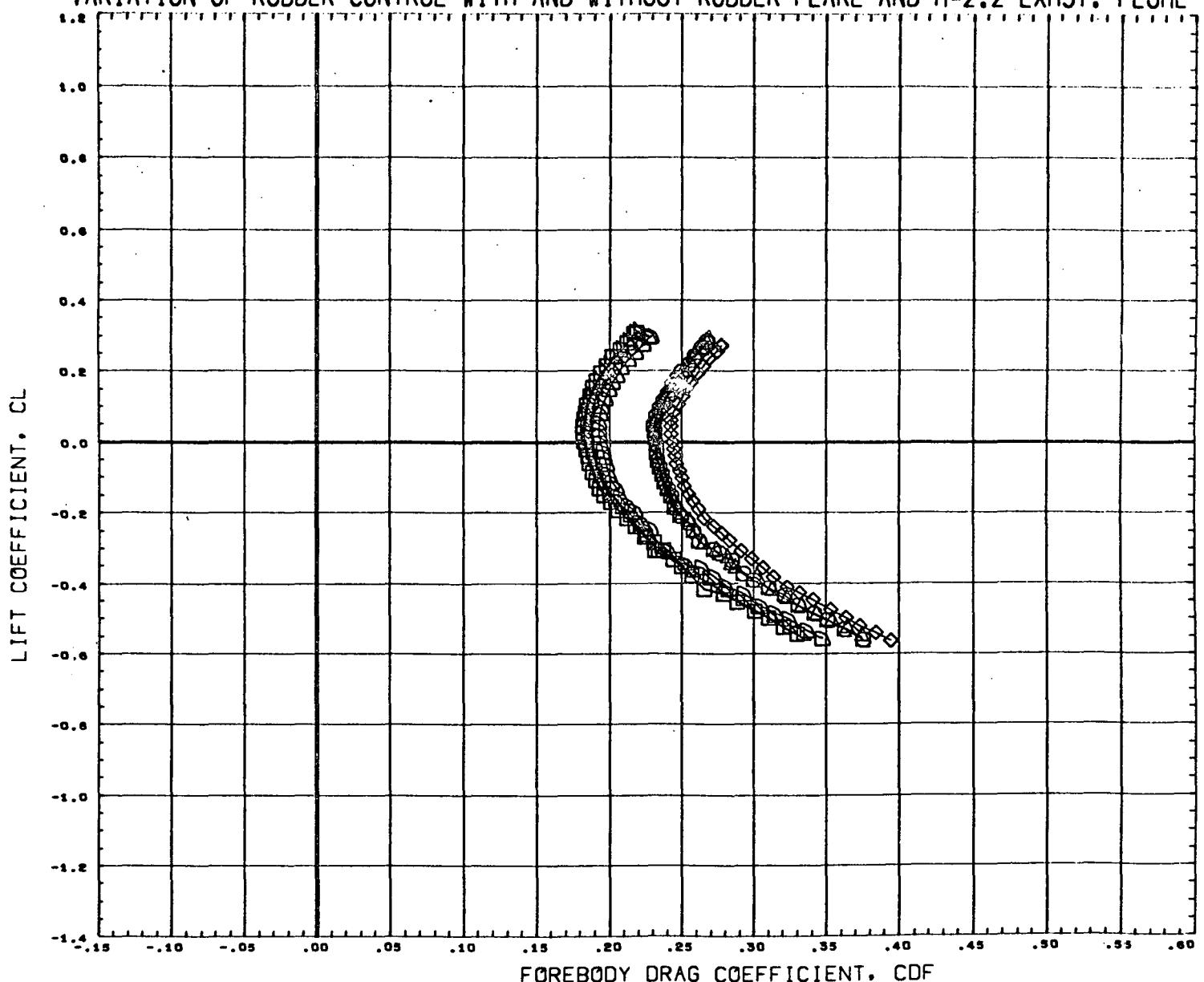
LIFT COEFFICIENT SQUARED. CLSQR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040, 50.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF	609.5004, IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	602.0004, IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP	557.0004, IN.
(CD7583)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP	0.0000, IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP	200.0004, IN.
						SCALE	0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME



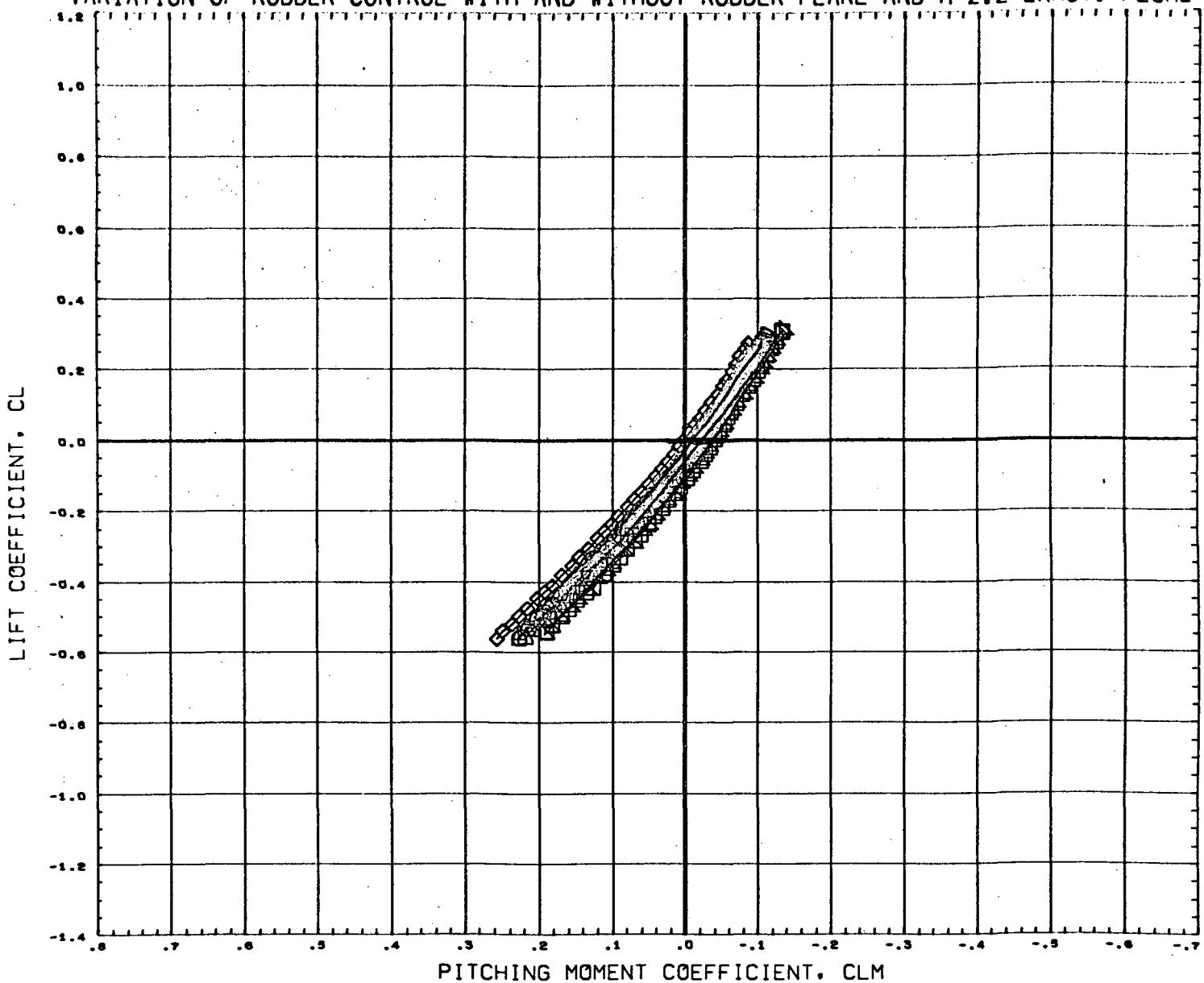
FOREBODY DRAG COEFFICIENT, CDF

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

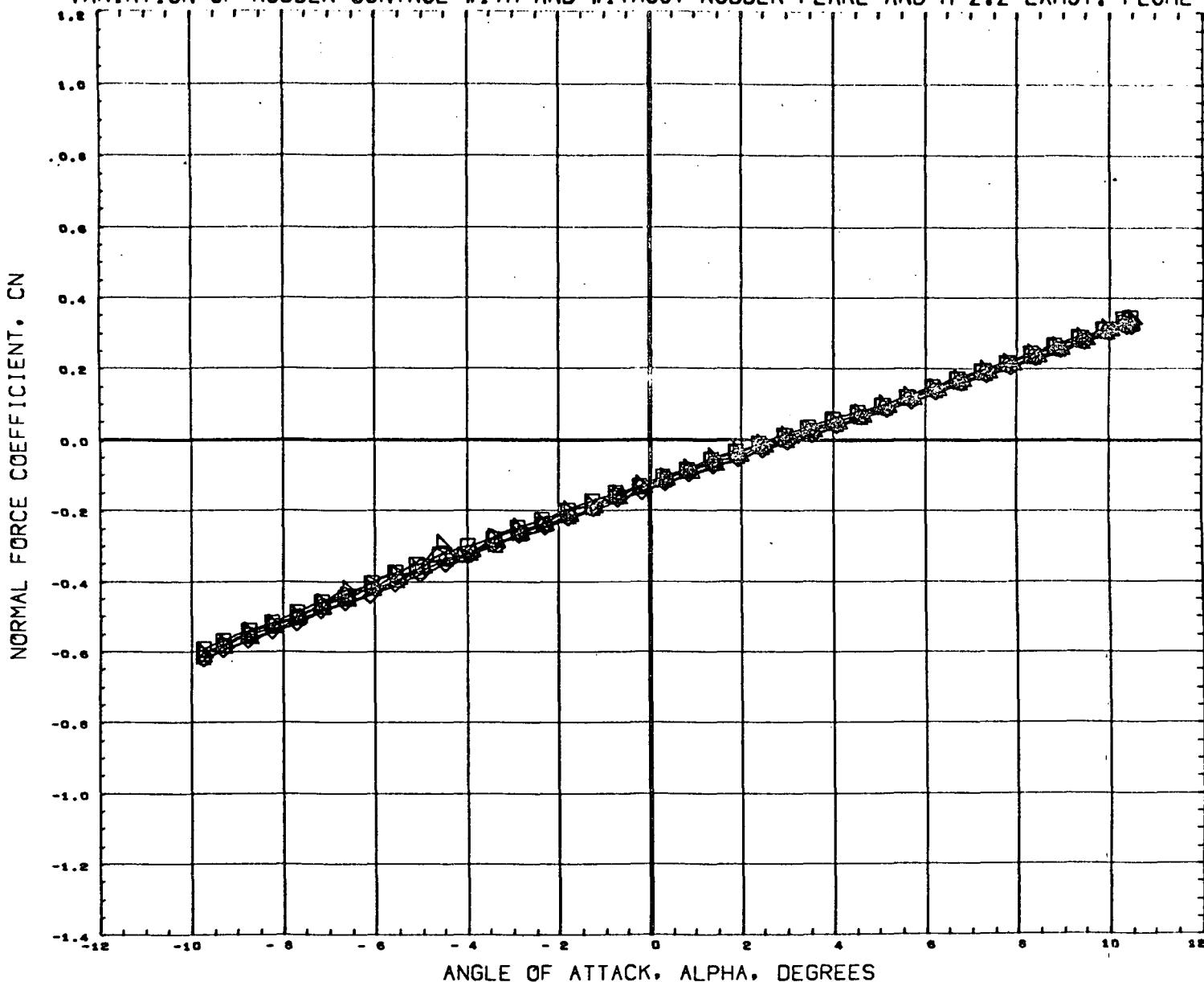


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7594)	MDAC S-222 COMPOSITE(T-CG) O1T4F1B7A1-4	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	10.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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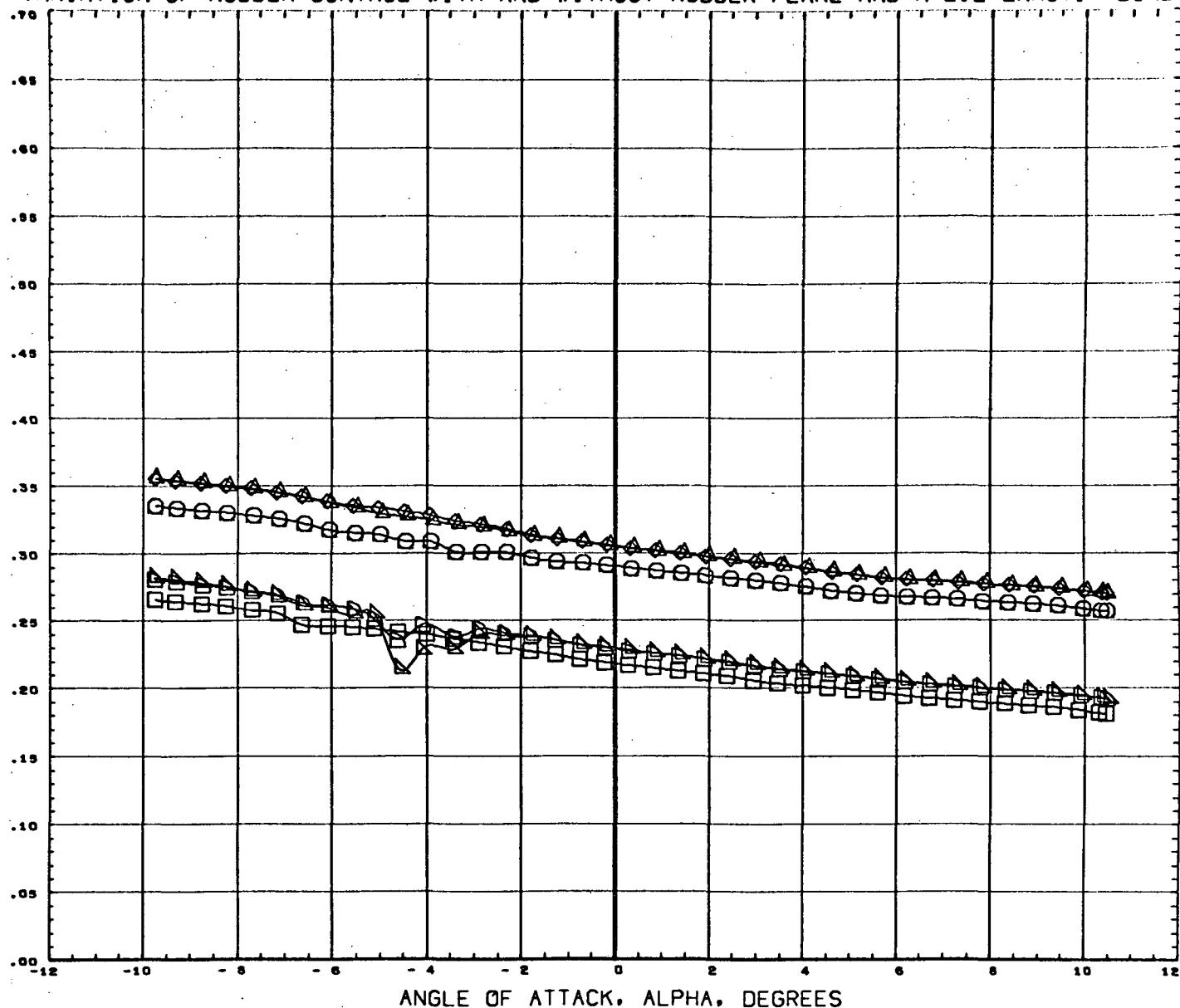
VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7585)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

AXIAL FORCE COEFFICIENT, CA



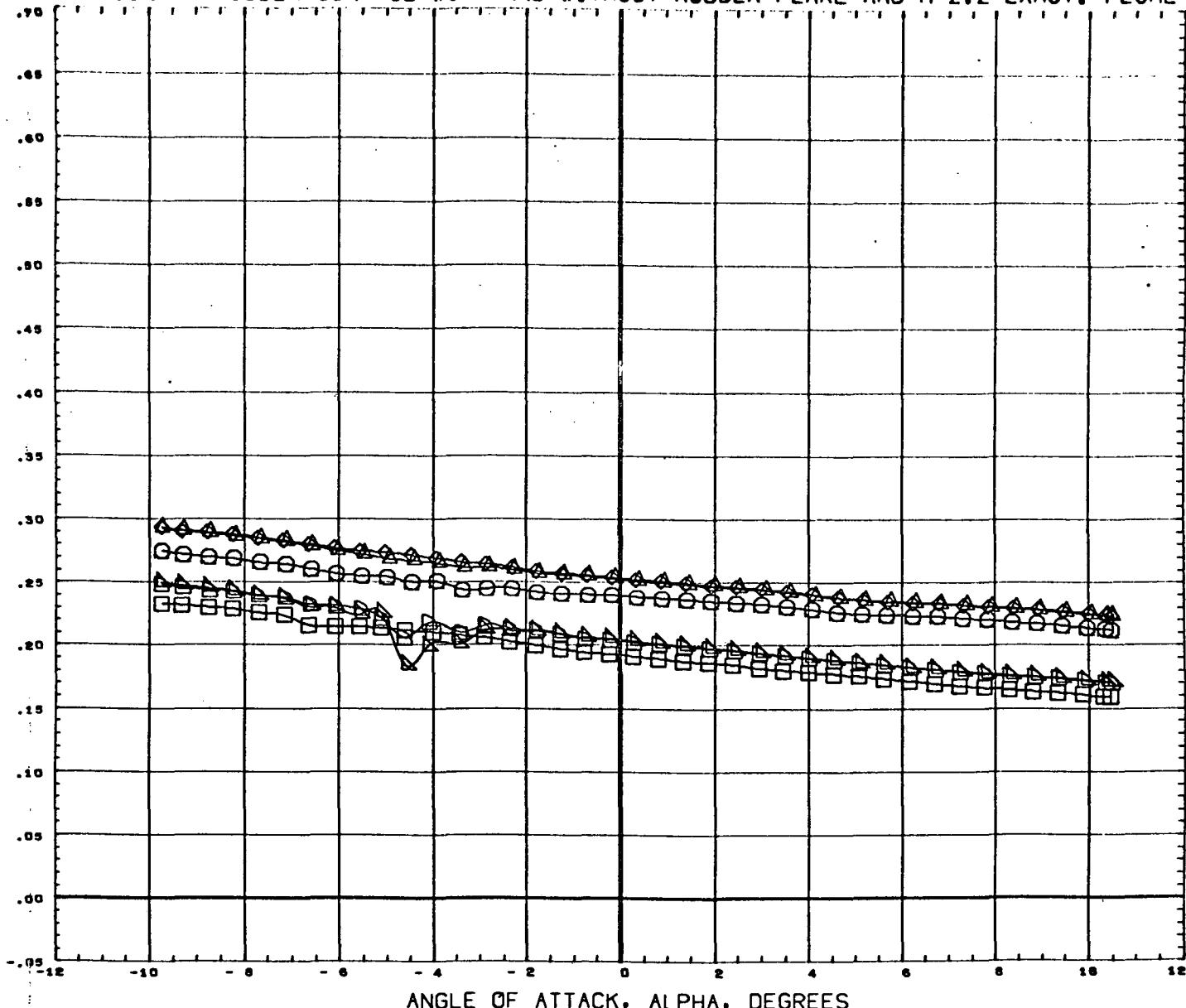
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4BT1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4BT1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4BT1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4BT1-4+PLU(2,2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7585)	MDAC S-222 COMPOSITE(T-CG) O1V1T4BT1-4+PLU(2,2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4BT1-4+PLU(2,2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
					SCALE	0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

FOREBODY AXIAL FORCE COEFFICIENT, CAF



ANGLE OF ATTACK, ALPHA, DEGREES

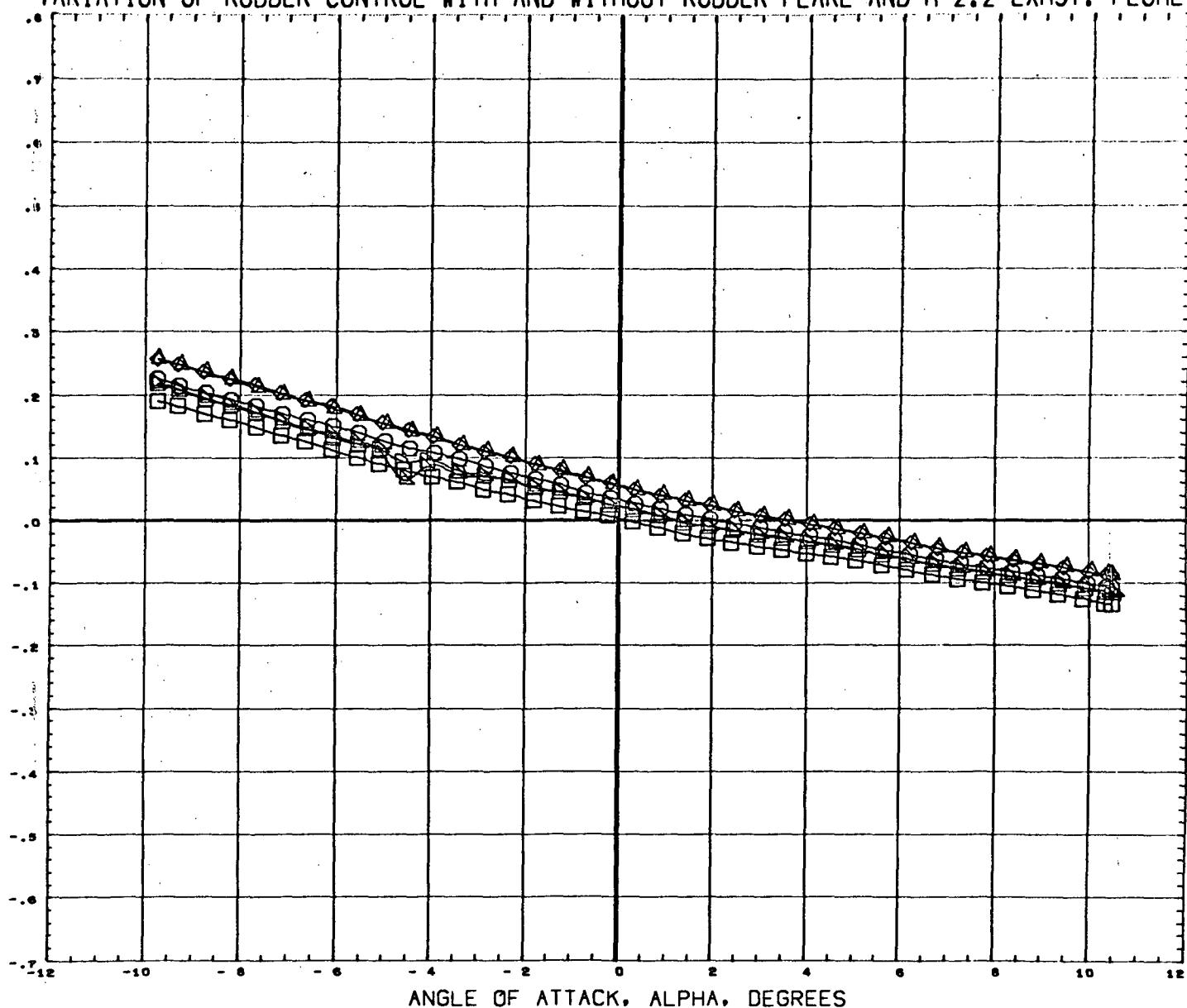
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD7585)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

PITCHING MOMENT COEFFICIENT, CLM

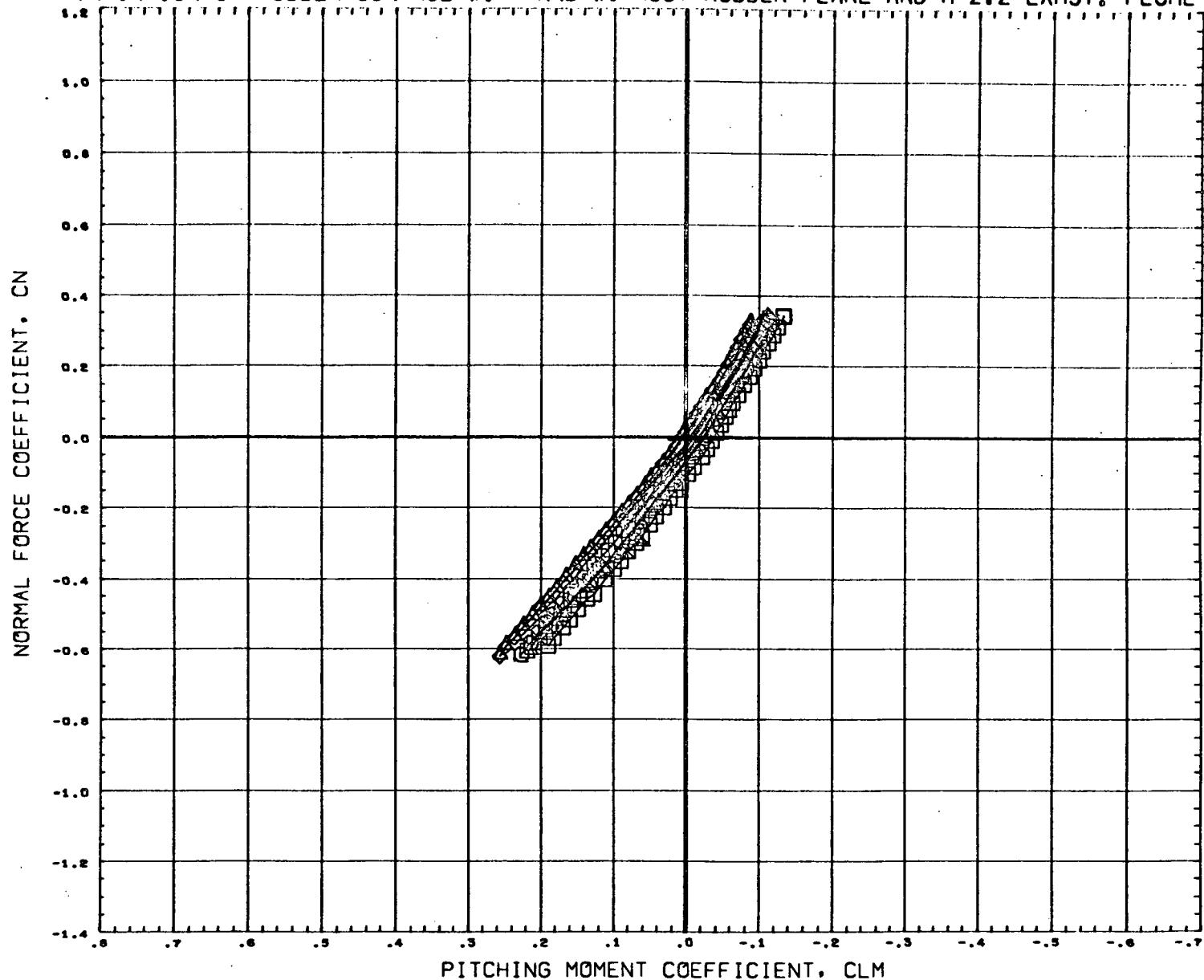


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7585)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) OIV1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

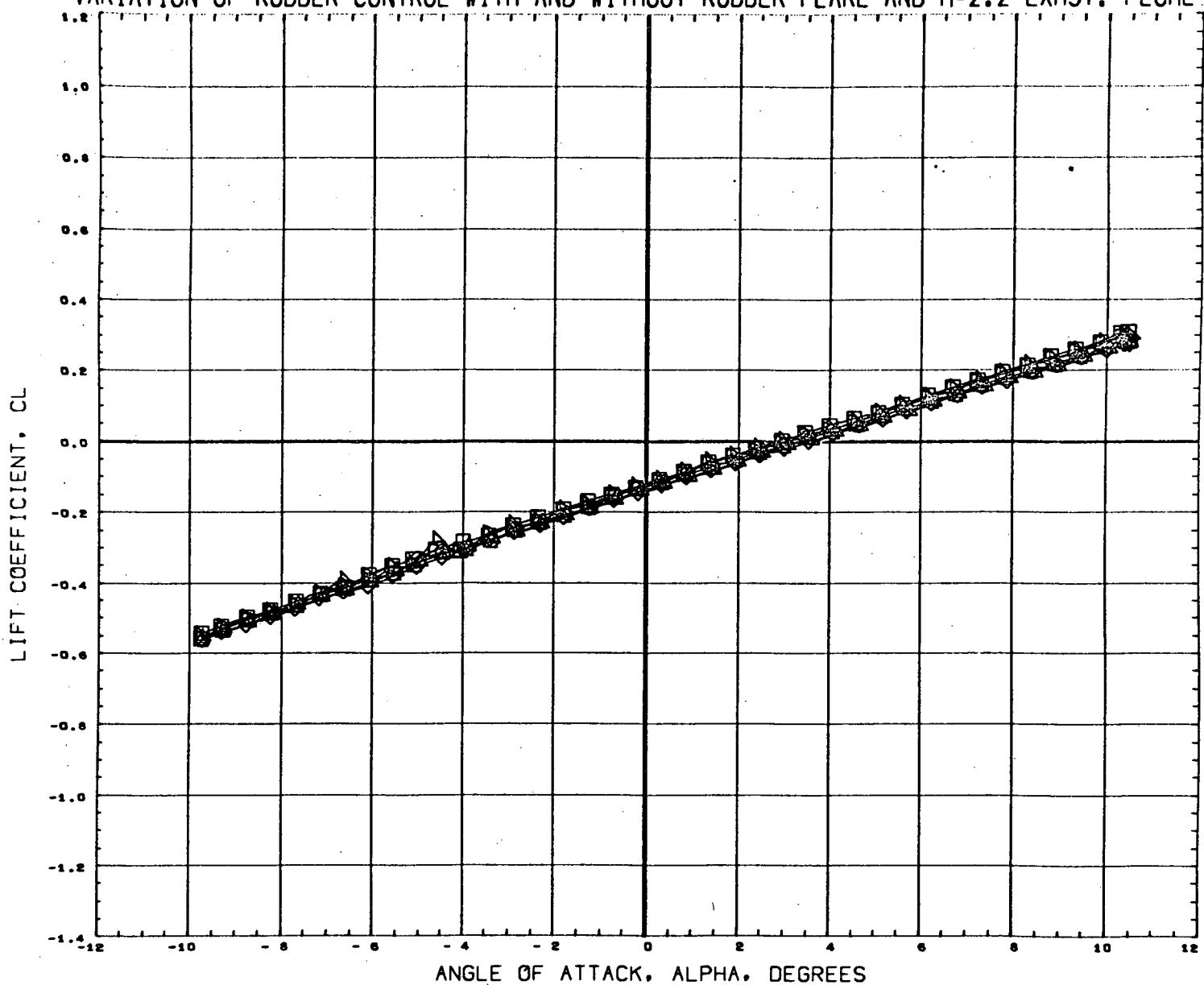


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 682.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7585)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME



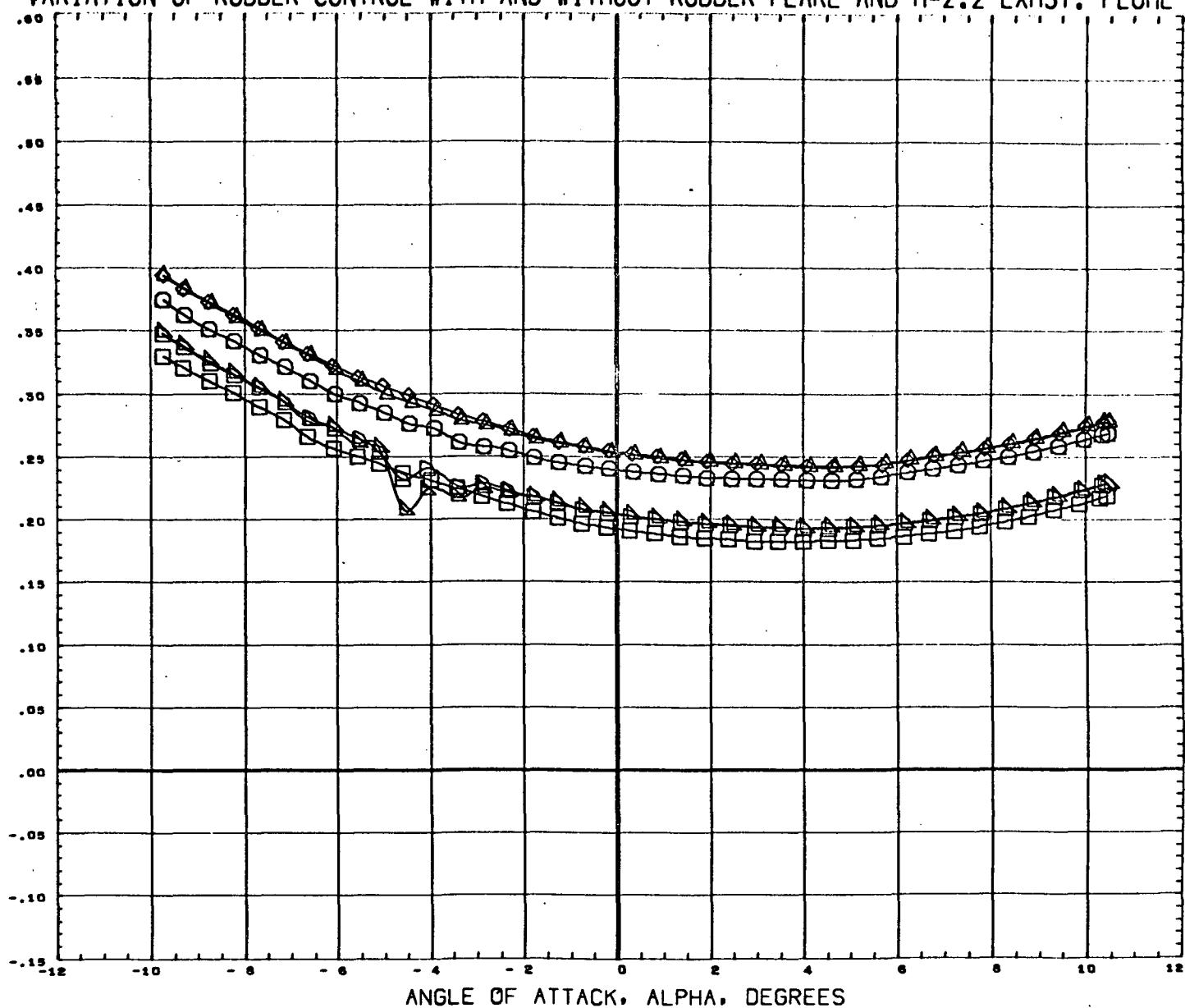
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF 609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF 882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP 557.0004 IN.
(CD7585)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP 0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

FOREBODY DRAG COEFFICIENT, CDF



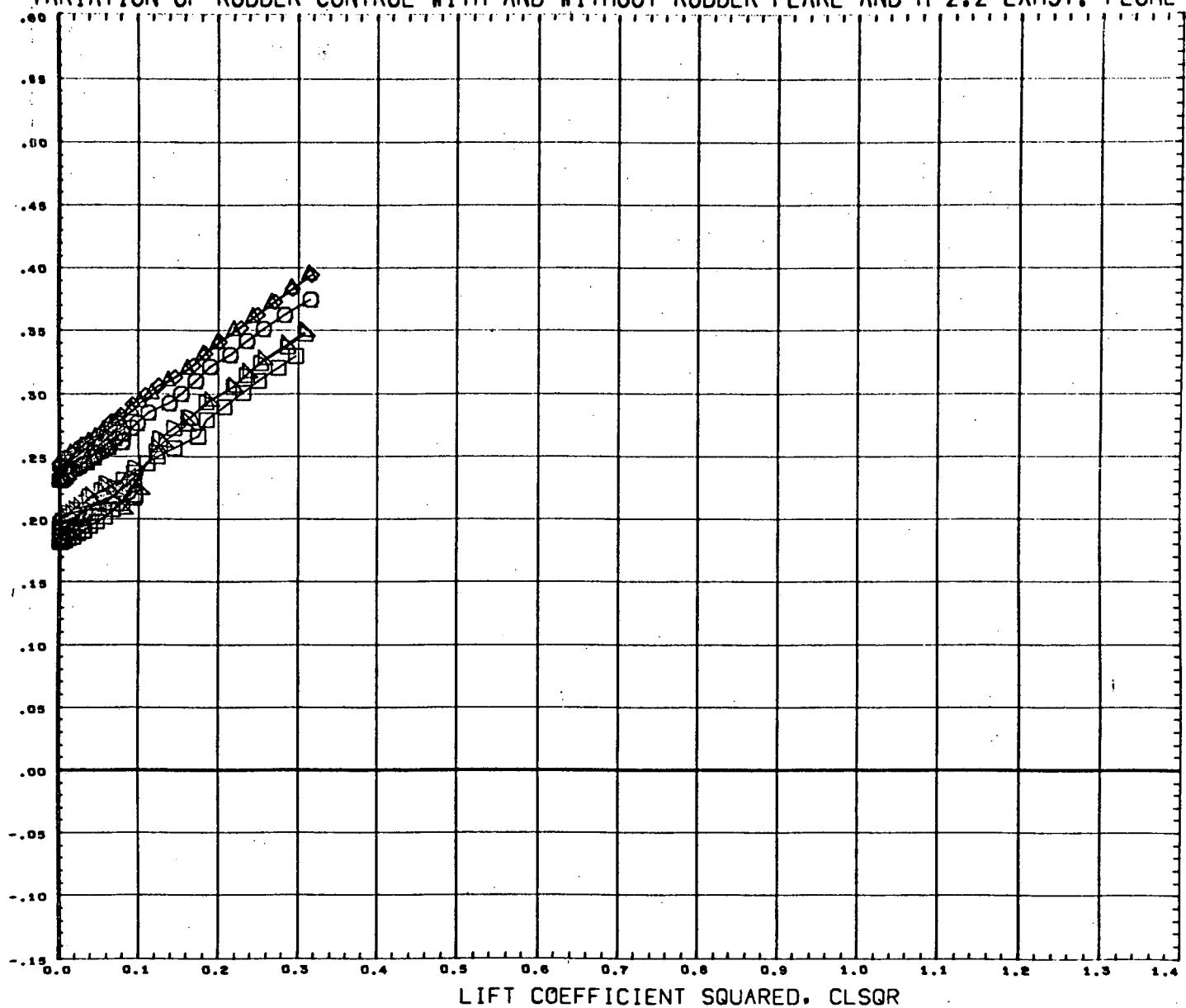
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CDT592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CDT596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(CDT598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CDT581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CDT585)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CDT587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

FOREBODY DRAG COEFFICIENT. CDF



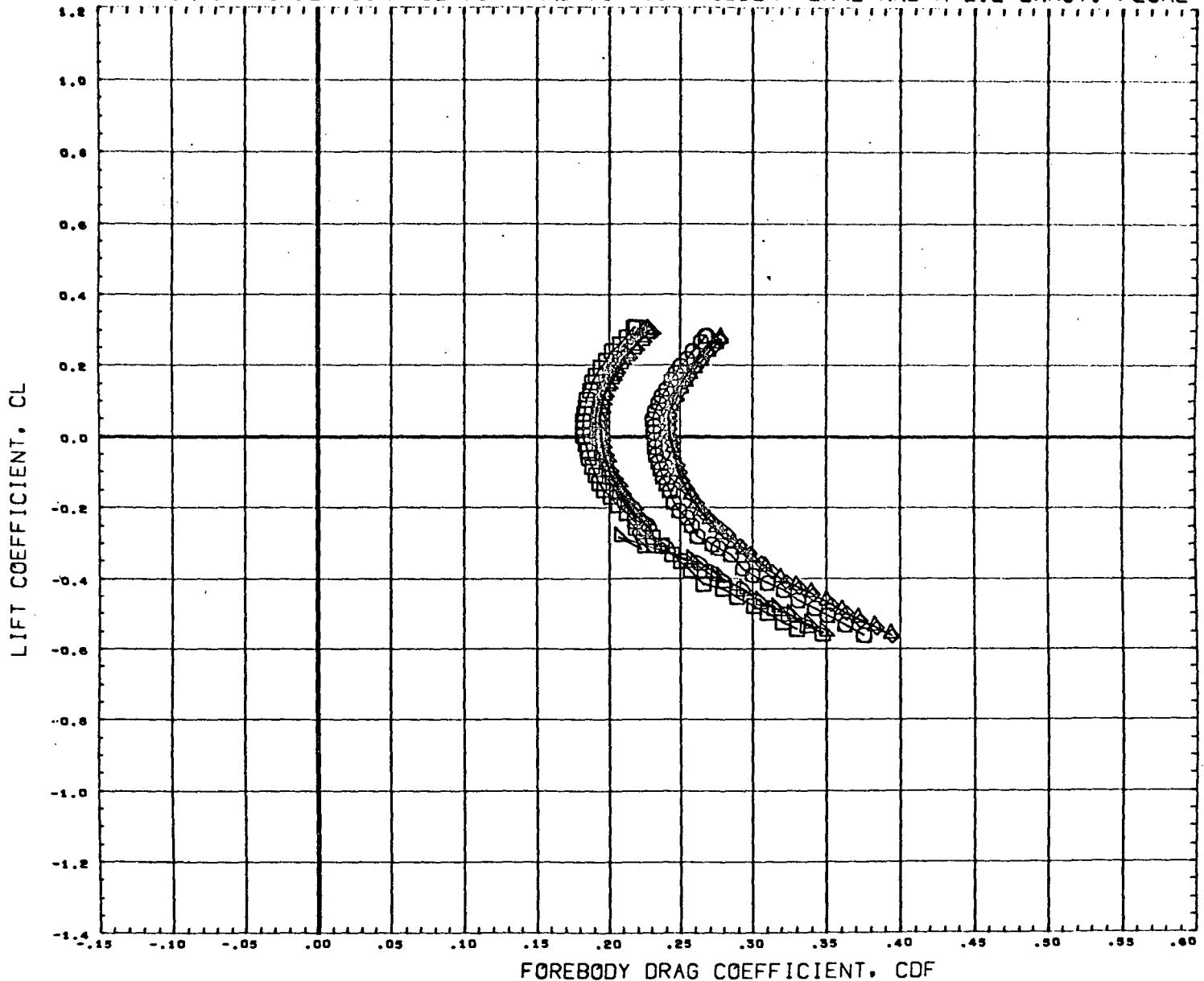
LIFT COEFFICIENT SQUARED. CLSQR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF	609.9004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD7583)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 2.20

PAGE 299

VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

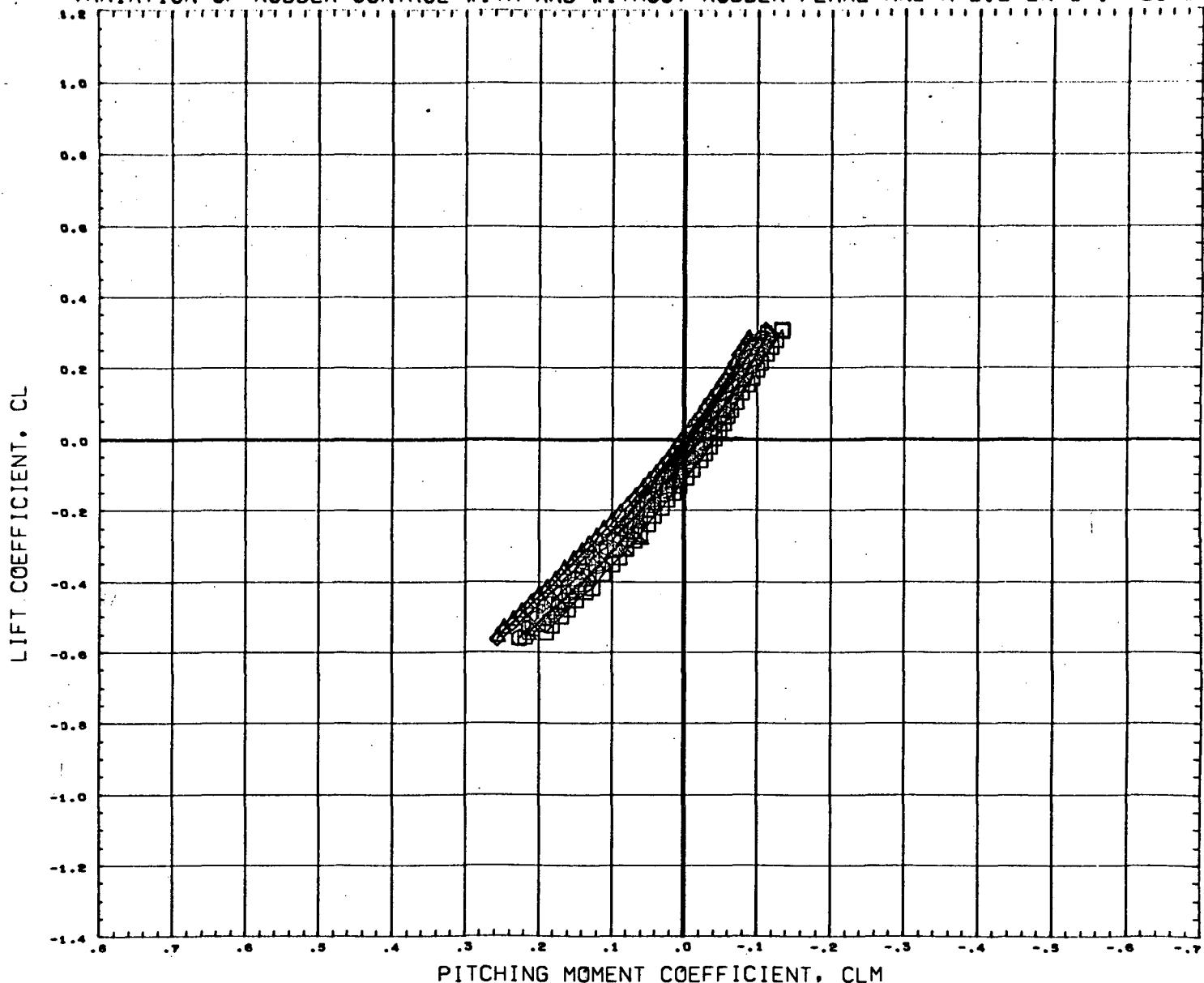


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD7585)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2.2)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 2.20

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VARIATION OF RUDDER CONTROL WITH AND WITHOUT RUDDER FLARE AND M=2.2 EXHST. PLUME

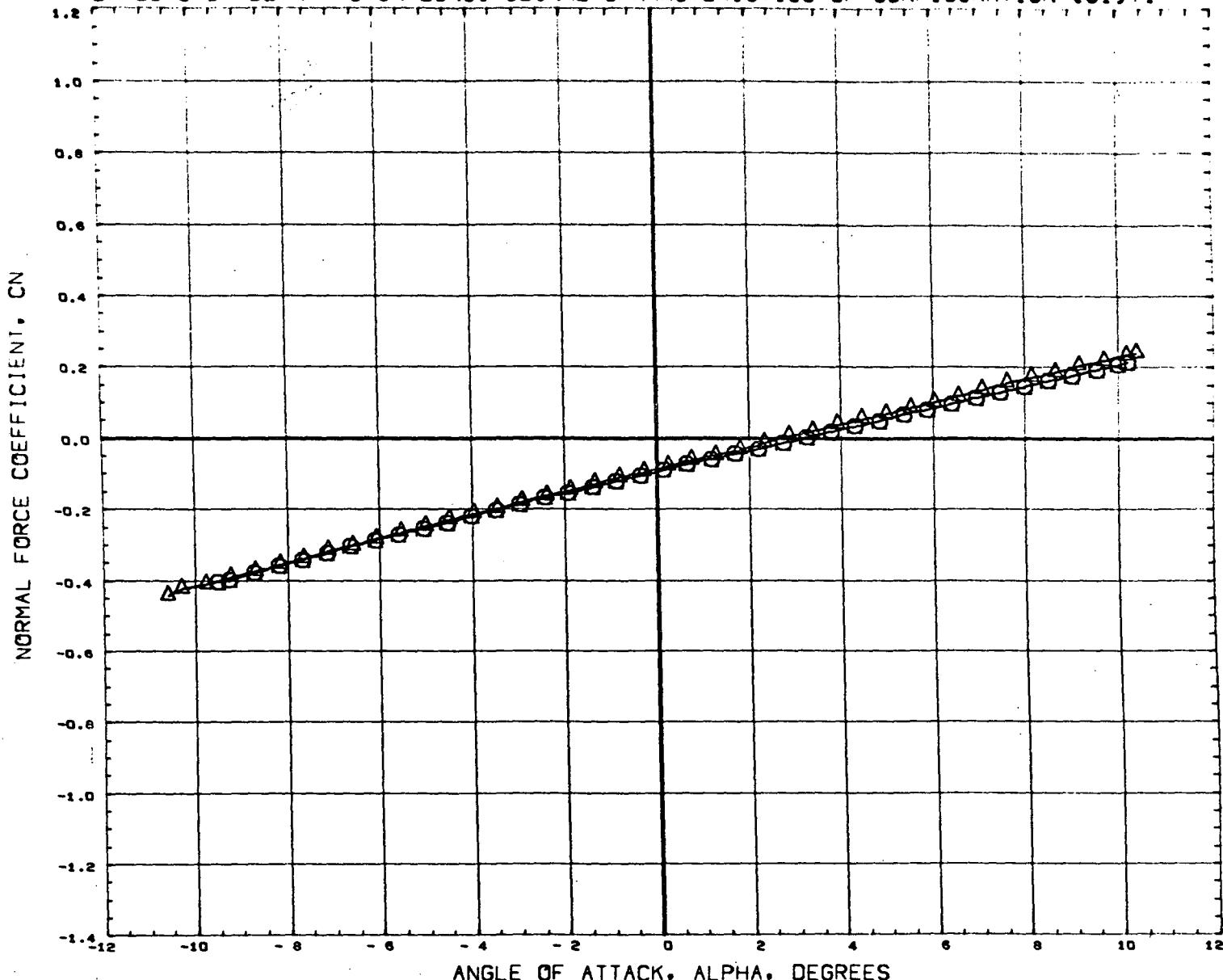


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	RUDFLR	RUDDER	REFERENCE	INFORMATION
(CD7592)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7596)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
(CD7598)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4	0.000	0.000	20.000	10.000	BREF	882.0004 IN.
(CD7581)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	0.000	0.000	XMRP	557.0004 IN.
(CD7585)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	0.000	YMRP	0.0000 IN.
(CD7587)	MDAC S-222 COMPOSITE(T-CG) O1V1T4B7A1-4+PLU(2,2)	0.000	0.000	20.000	10.000	ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 2.20

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1

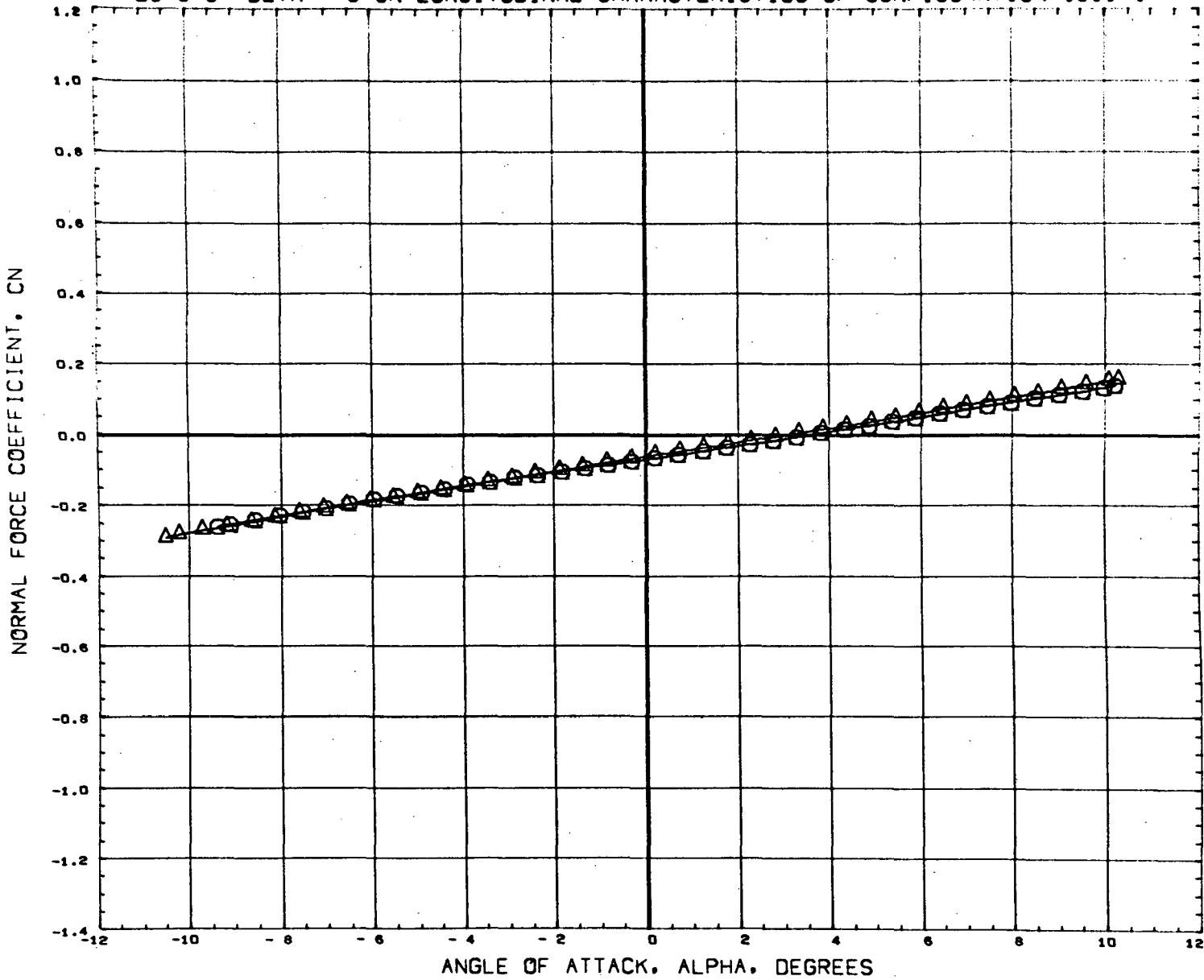


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7447)	○	MDAC S-222 COMPOSITE (T-CG) (01) T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SO.FT.
(CD7449)	△	MDAC S-222 COMPOSITE (T-CG) (01) T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1

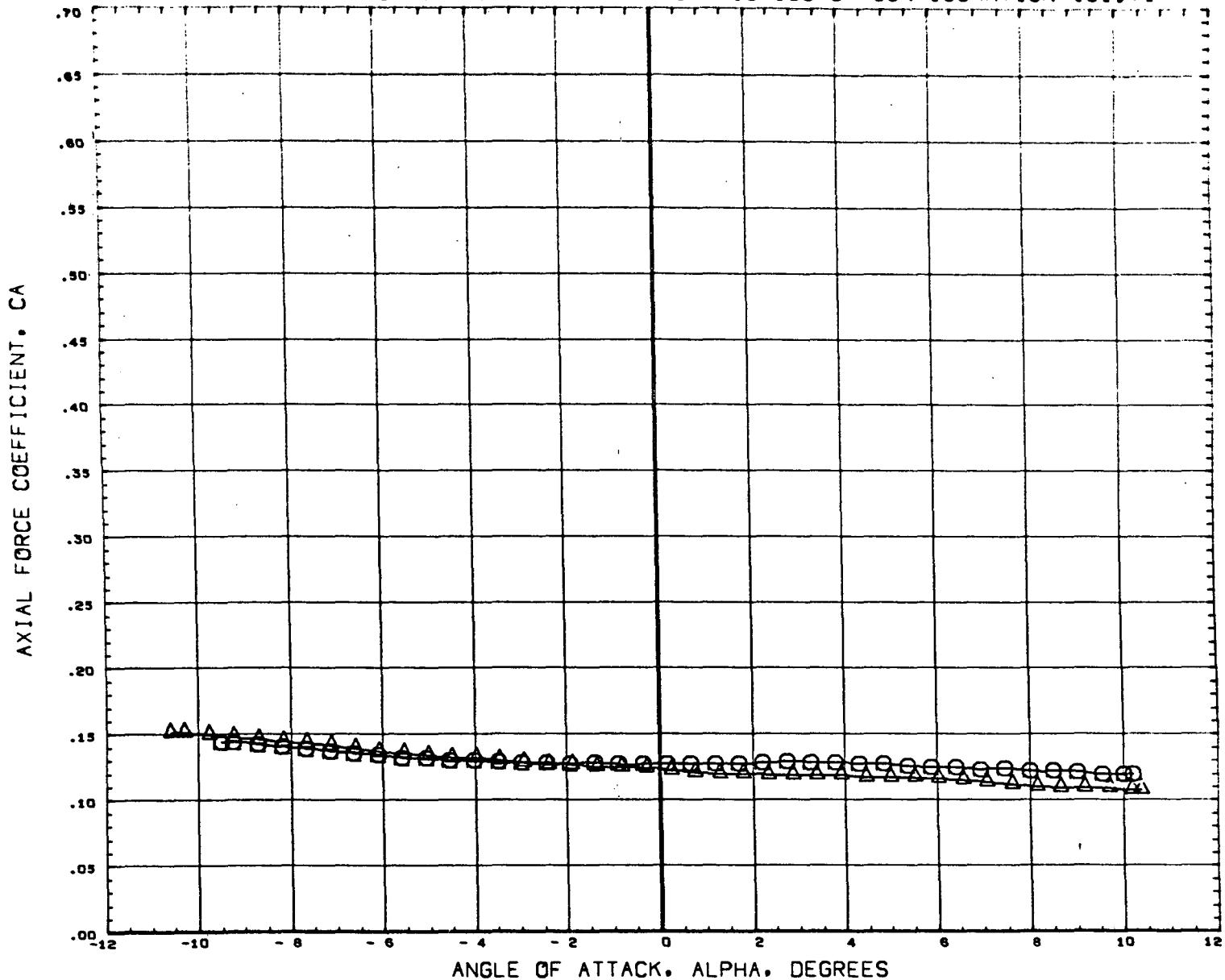


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7447)	Q	MDAC S-222 COMPOSITE (T-CG) (O1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7449)	Q	MDAC S-222 COMPOSITE (T-CG) (O1)T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 4.47

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1

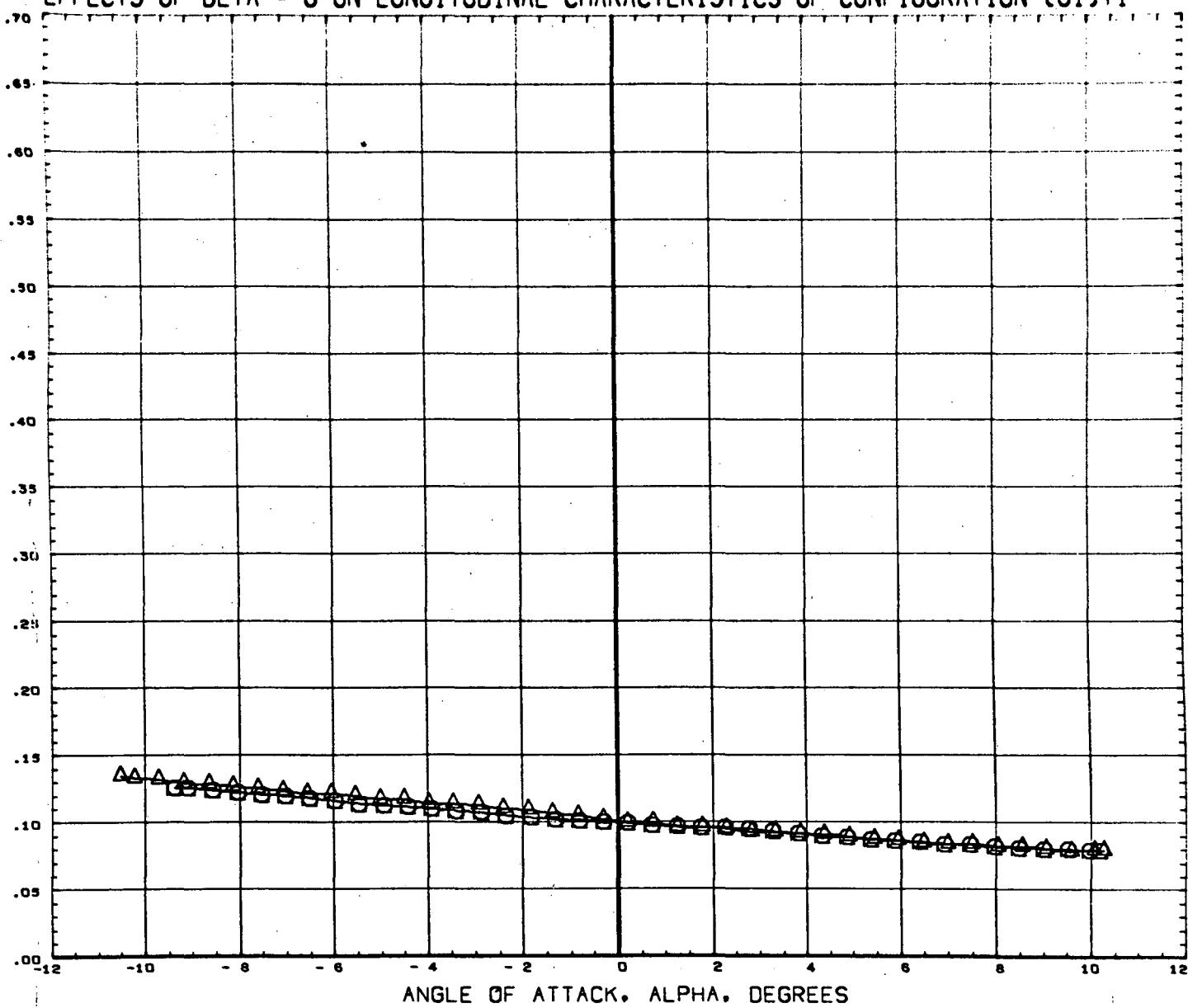


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7447) Q MDAC S-222 COMPOSITE (T-CG) (O1)T1
 (CD7449) A MDAC S-222 COMPOSITE (T-CG) (O1)T1

BETA	ELEVTR	AILRDN	RUDDER	REFERENCE	INFORMATION
0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF	609.5004 IN.
				BREF	862.0004 IN.
				XMRP	557.0004 IN.
				YMRP	0.0000 IN.
				ZMRP	200.0004 IN.
				SCALE	0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1

AXIAL FORCE COEFFICIENT, CA



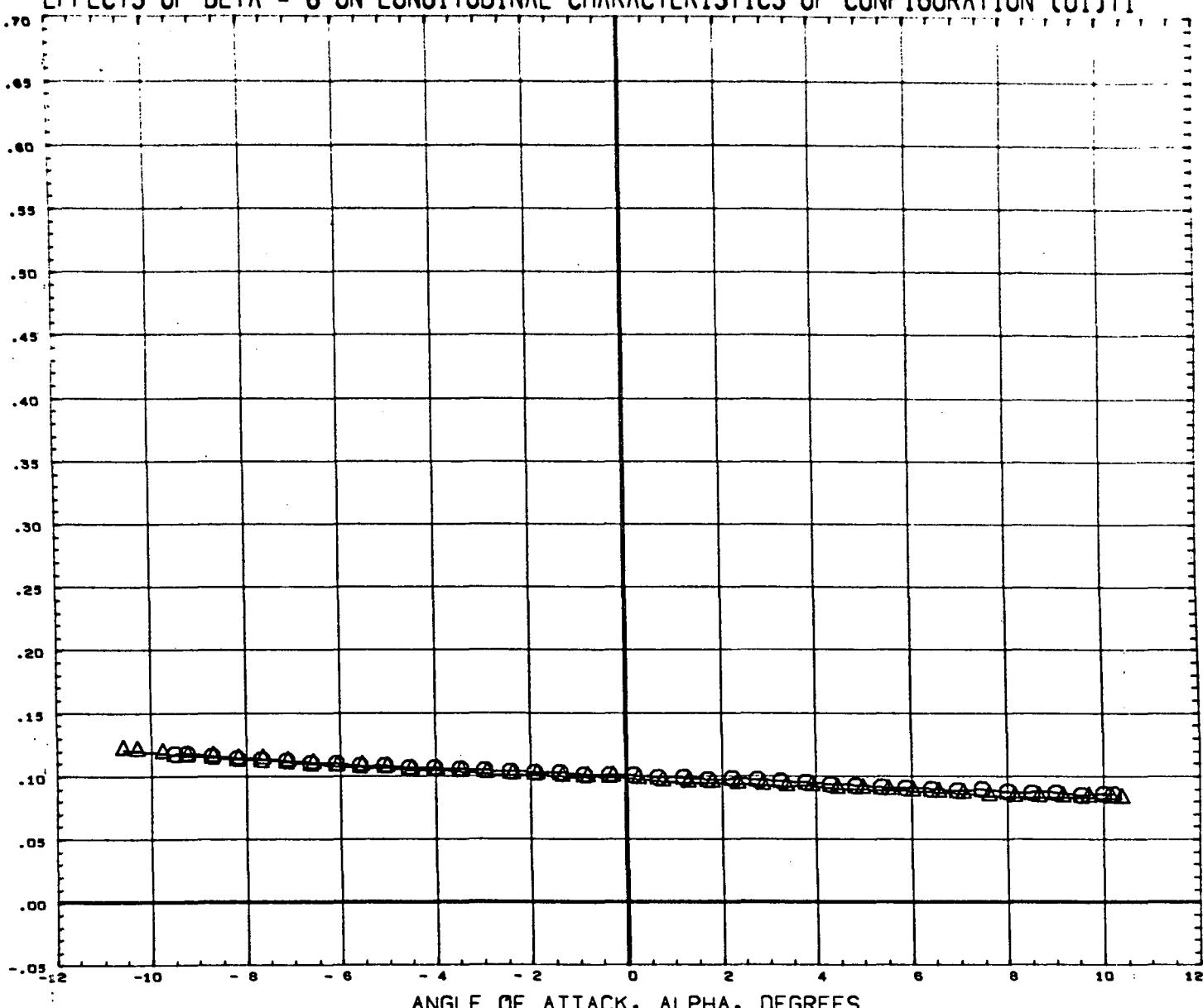
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7447)	Q	MDAC S-222 COMPOSITE(T-CG) (O1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7449)	Q	MDAC S-222 COMPOSITE(T-CG) (O1)T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 4.47

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1

FOREBODY AXIAL FORCE COEFFICIENT, CAF



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7447) Q MDAC S-222 COMPOSITE (T-CG) (01)T1
 (CD7449) A MDAC S-222 COMPOSITE (T-CG) (01)T1

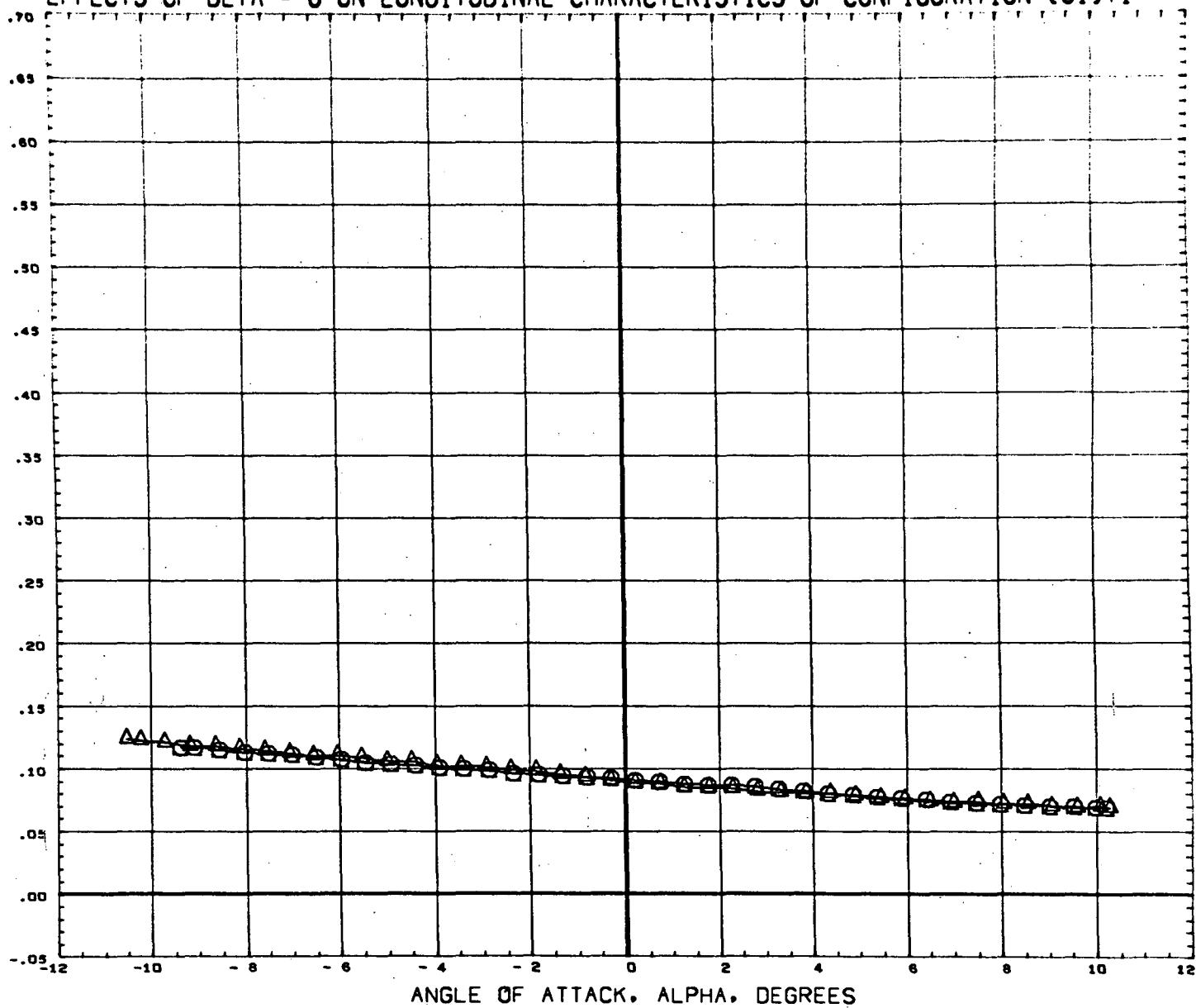
BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 2.20

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1

FOREBODY AXIAL FORCE COEFFICIENT, CAF



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CDT447) Q MDAC S-222 COMPOSITE(T-CG) (01)T1
 (CDT449) A MDAC S-222 COMPOSITE(T-CG) (01)T1

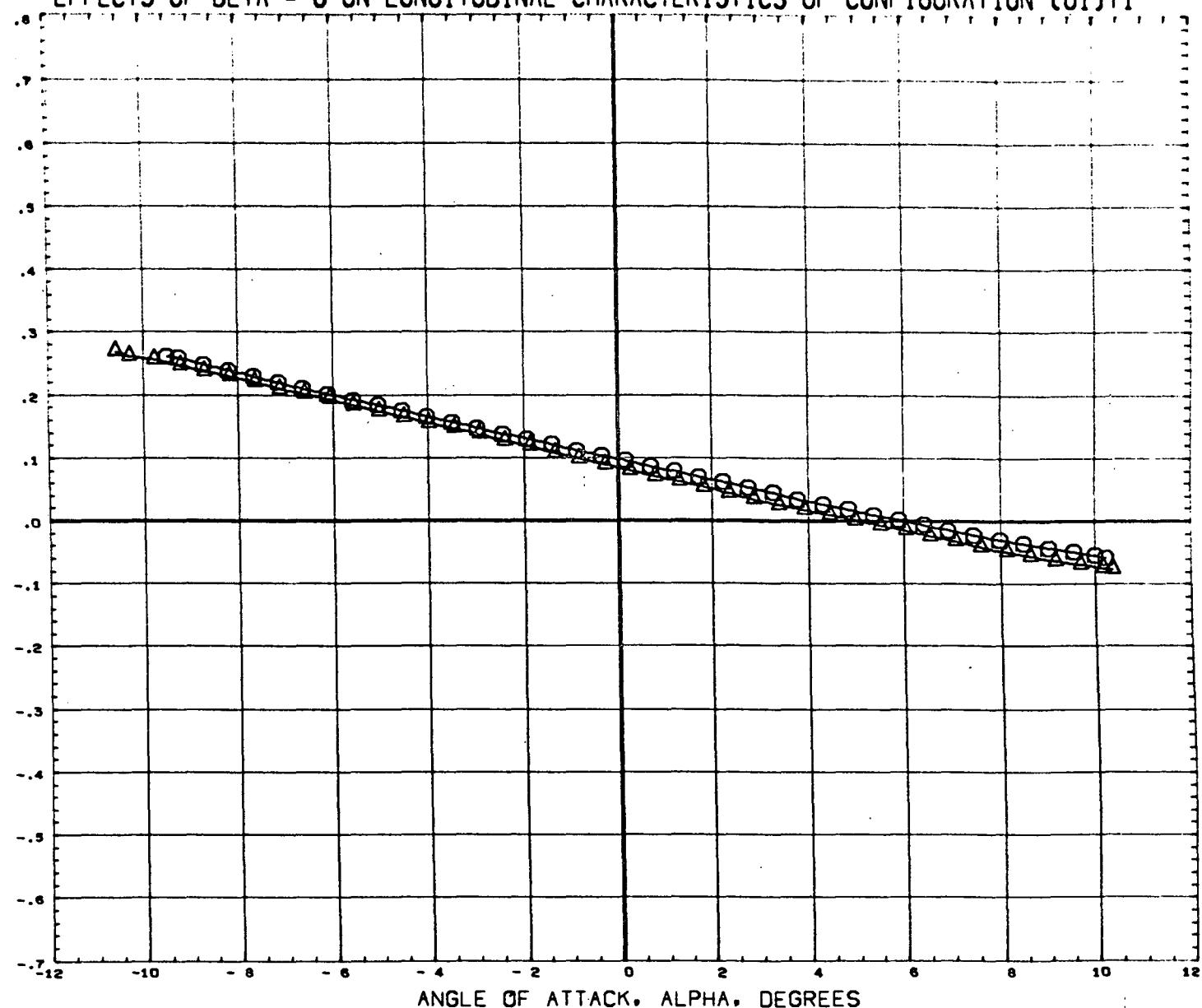
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 4.47

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1

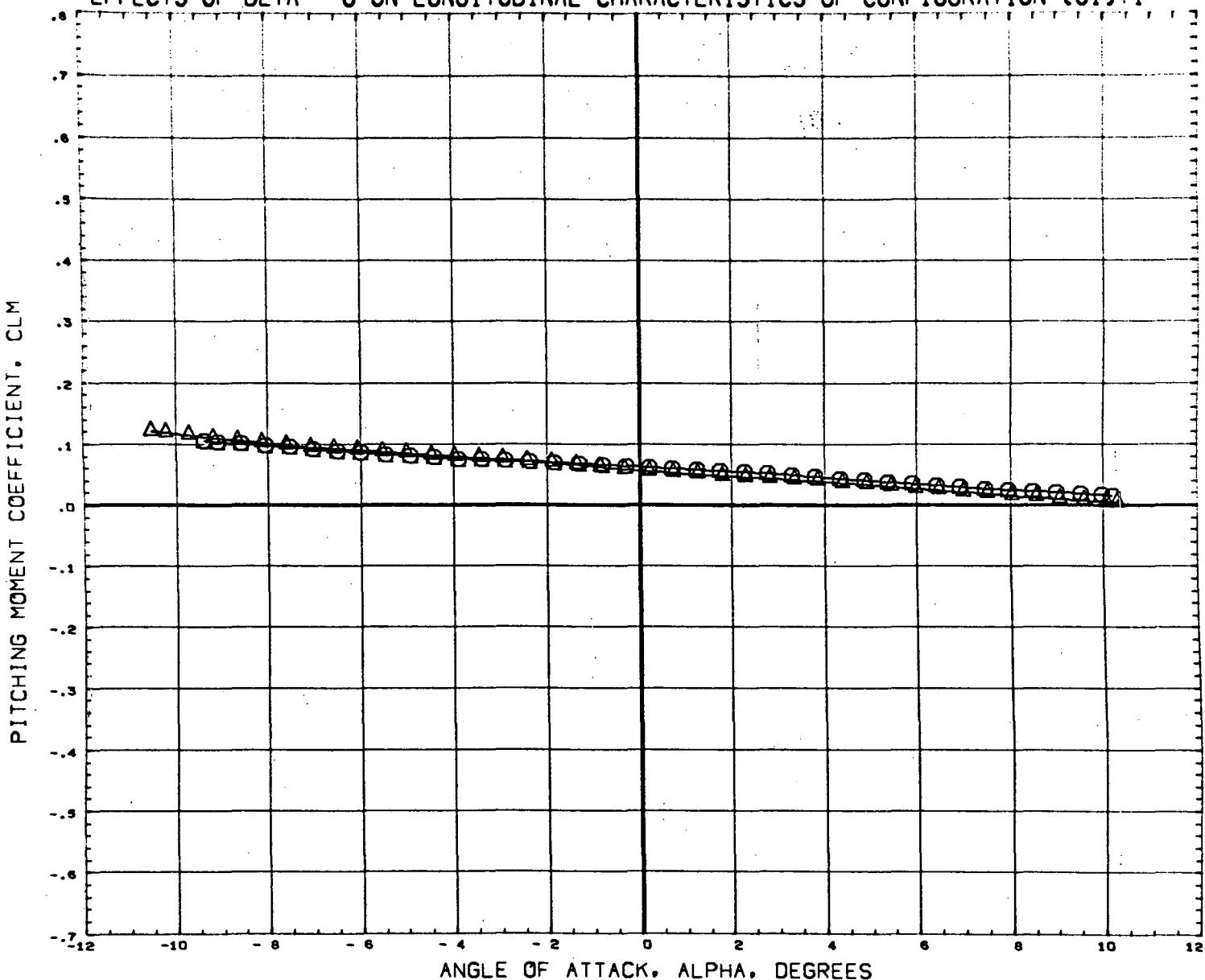
PITCHING MOMENT COEFFICIENT. CLM



DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (CD7449) A MDAC S-222 COMPOSITE(T-CG) (O1)T1

BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

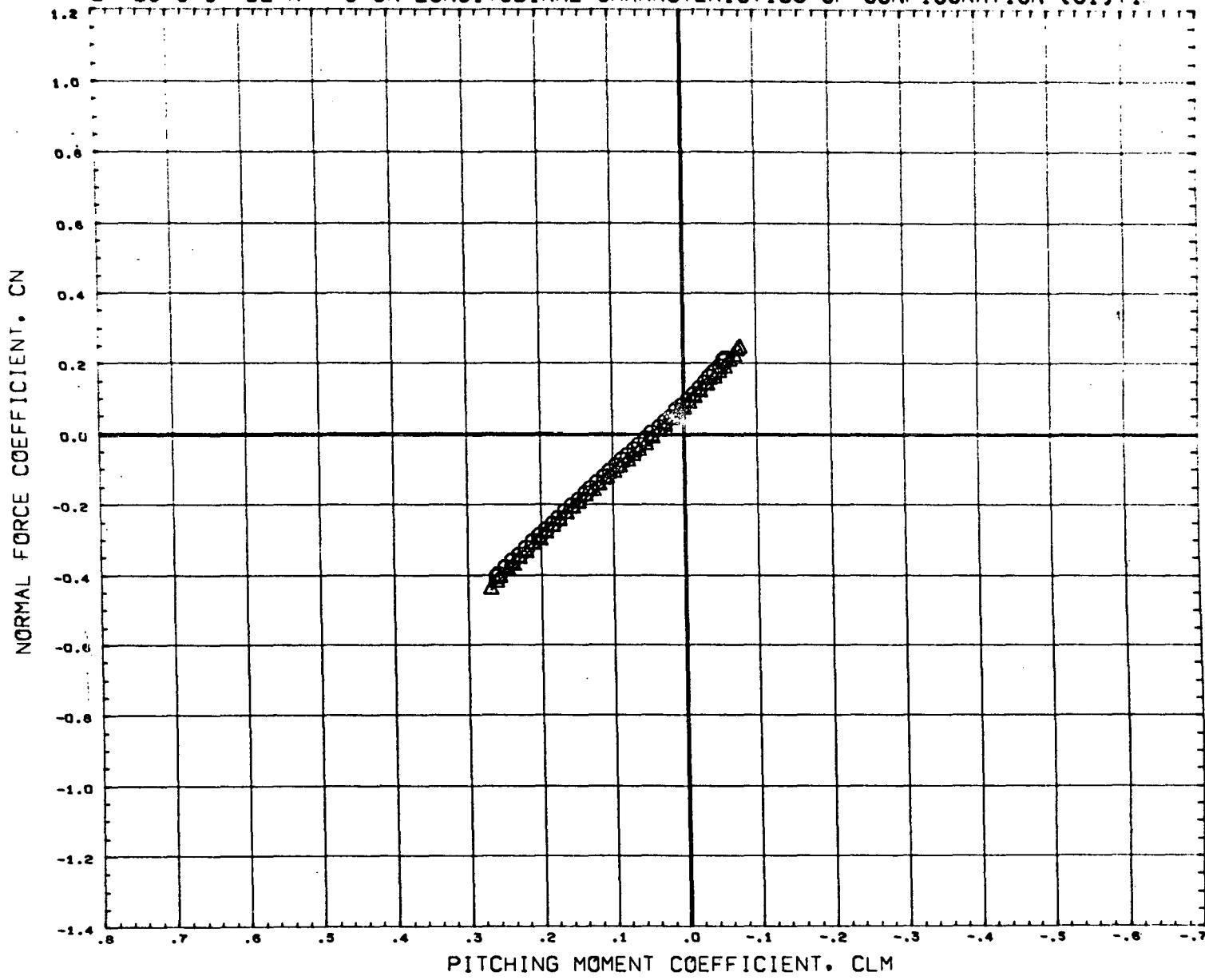
EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1



DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (CD7449) MDAC S-222 COMPOSITE (T-CG) (O1)T1

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1



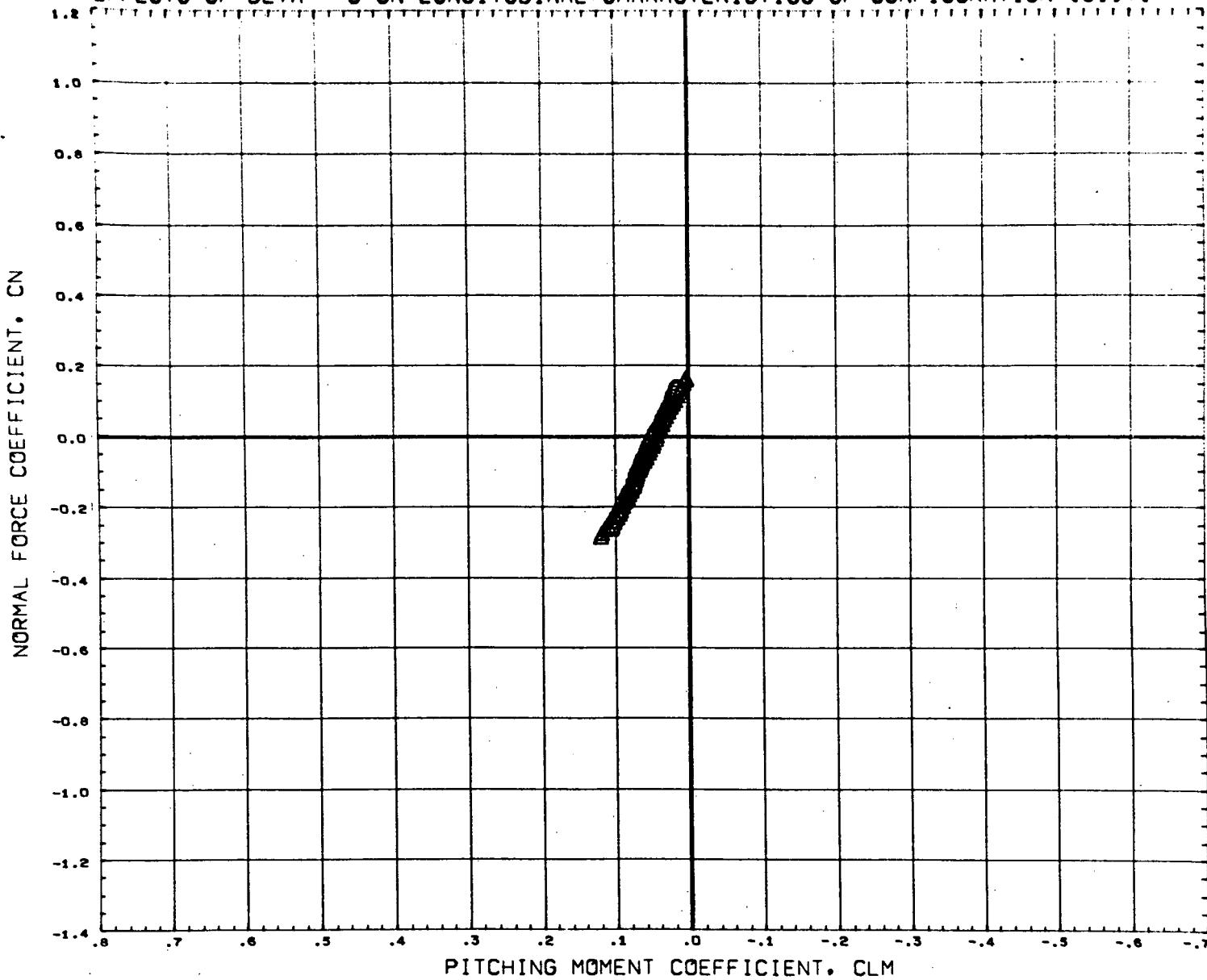
PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL		CONFIGURATION DESCRIPTION				BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7447)	Q	MDAC S-222 COMPOSITE(T-CG)	(O1)T1			0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7449)	Q	MDAC S-222 COMPOSITE(T-CG)	(O1)T1			6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

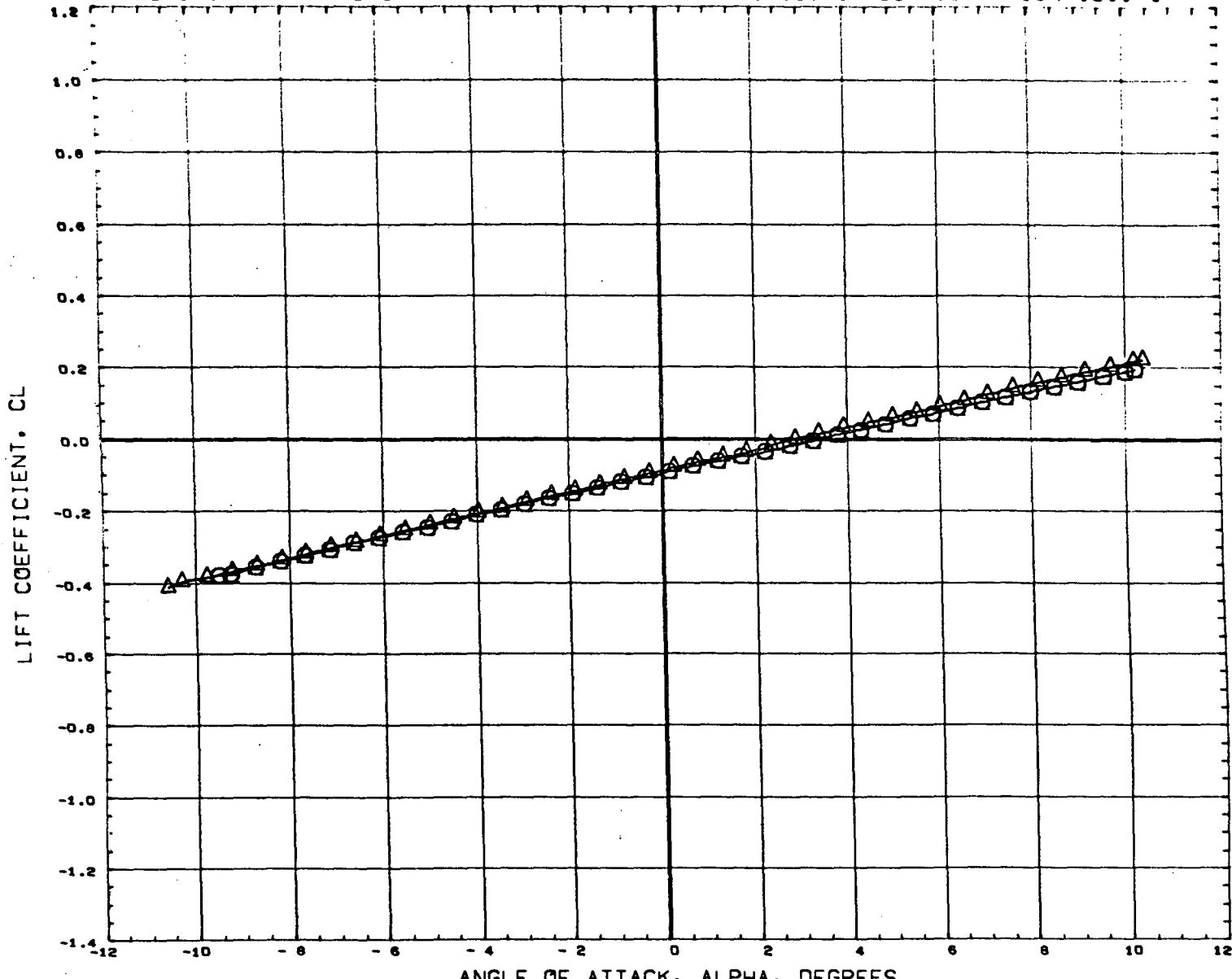
PAGE 310

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7447)	MDAC S-222 COMPOSITE(T-CG) (O1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7449)	MDAC S-222 COMPOSITE(T-CG) (O1)T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 882.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

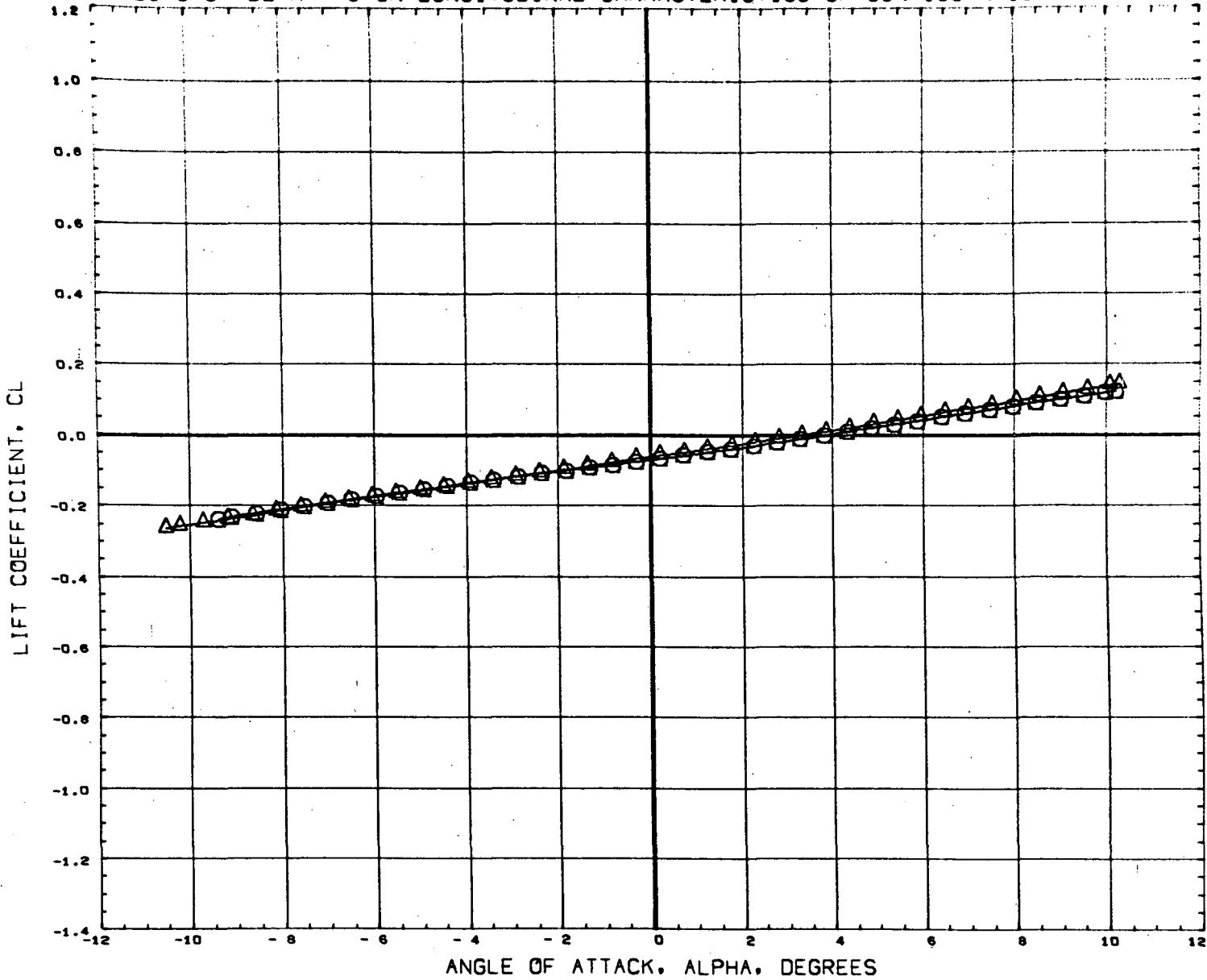
EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CDT447) MDAC S-222 COMPOSITE(T-CG) (01)T1
 (CDT449) MDAC S-222 COMPOSITE(T-CG) (01)T1

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 : SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

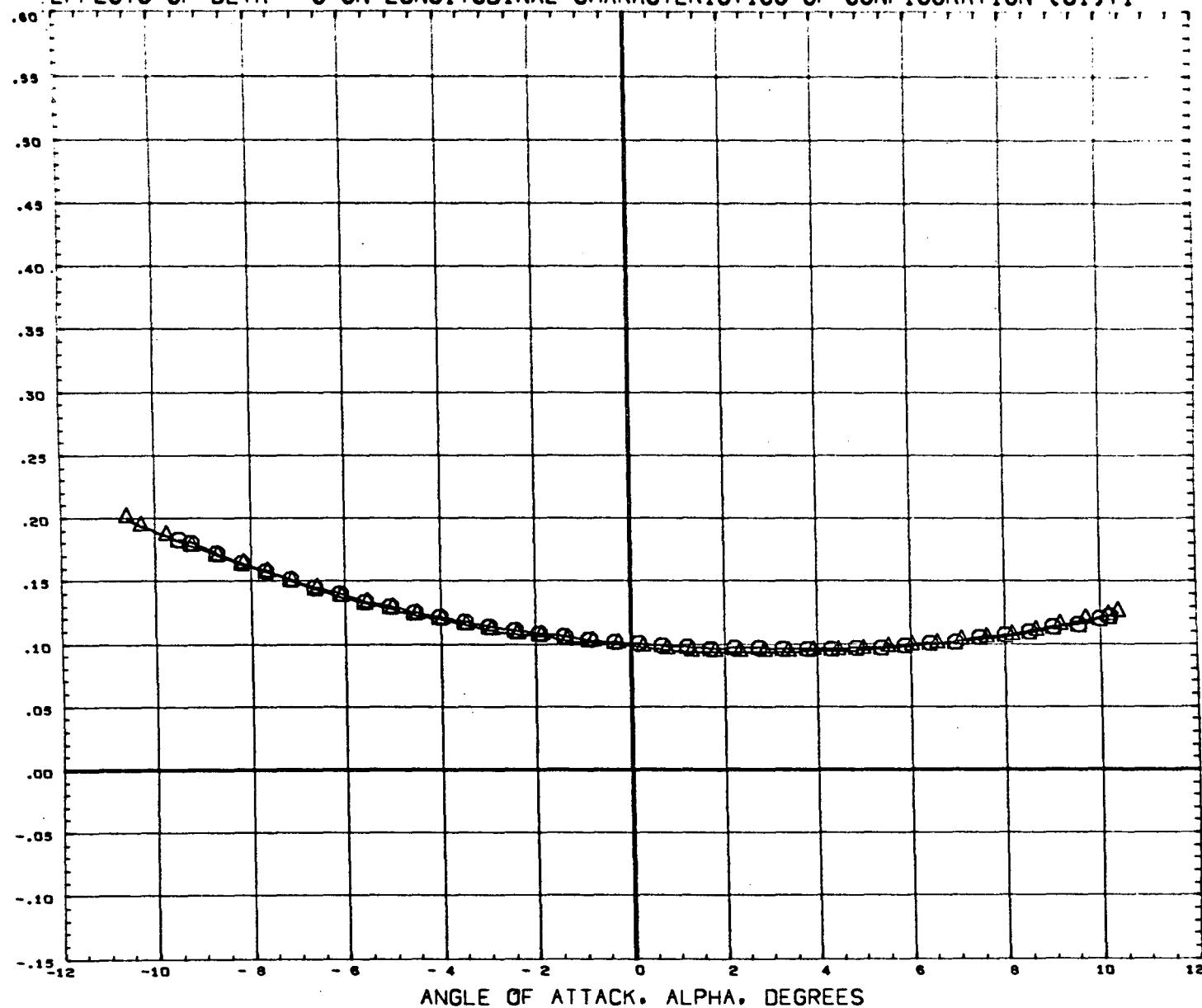
EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7447)	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7449)	MDAC S-222 COMPOSITE(T-CG) (01)T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 882.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1

FOREBODY DRAG COEFFICIENT. CDF

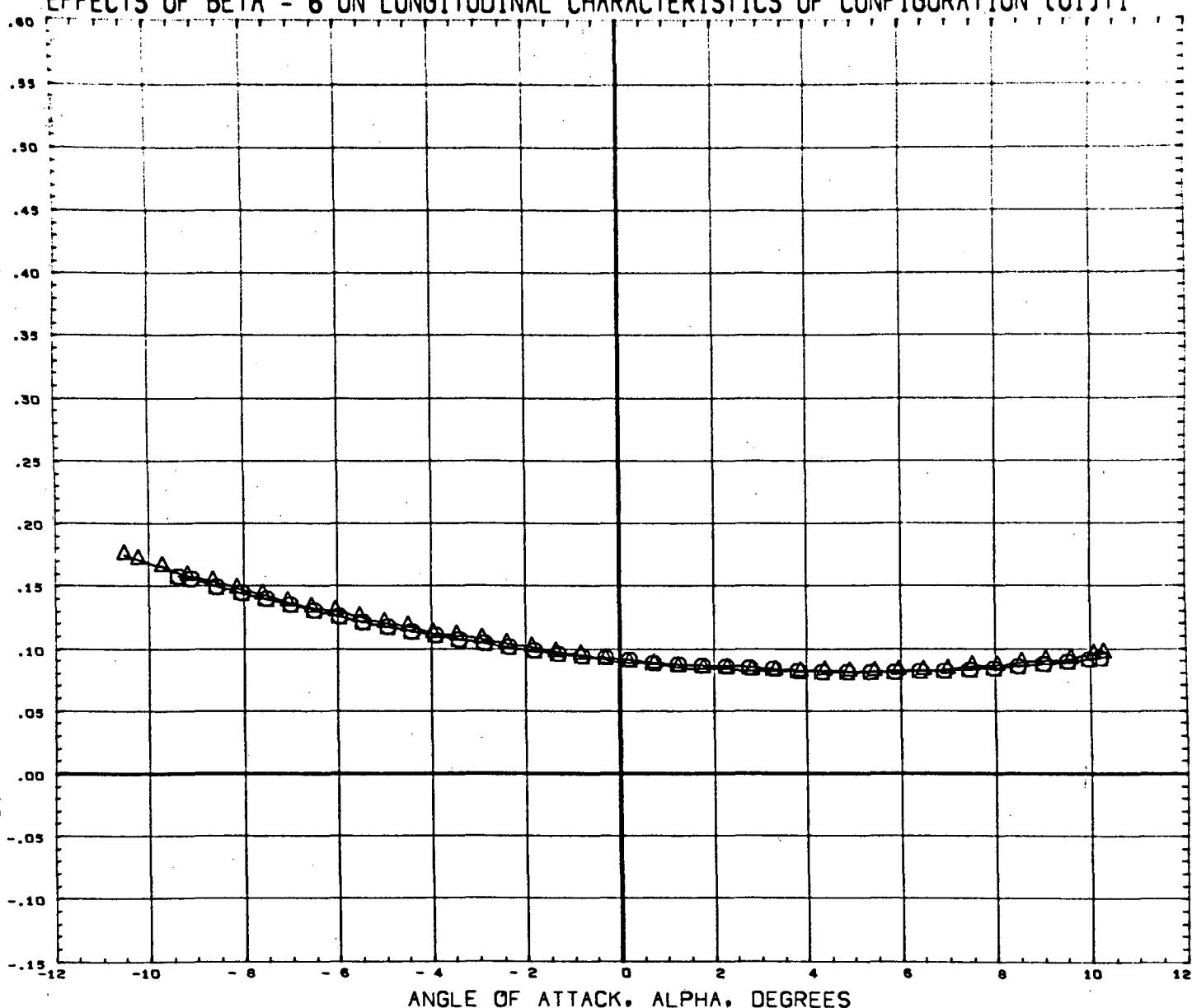


DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (CD7449) MDAC S-222 COMPOSITE (T-CG) (O1)T1

BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1

FOREBODY DRAG COEFFICIENT, CDF



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7447) MDAC S-222 COMPOSITE (T-CG) (01)T1
 (CD7449) MDAC S-222 COMPOSITE (T-CG) (01)T1

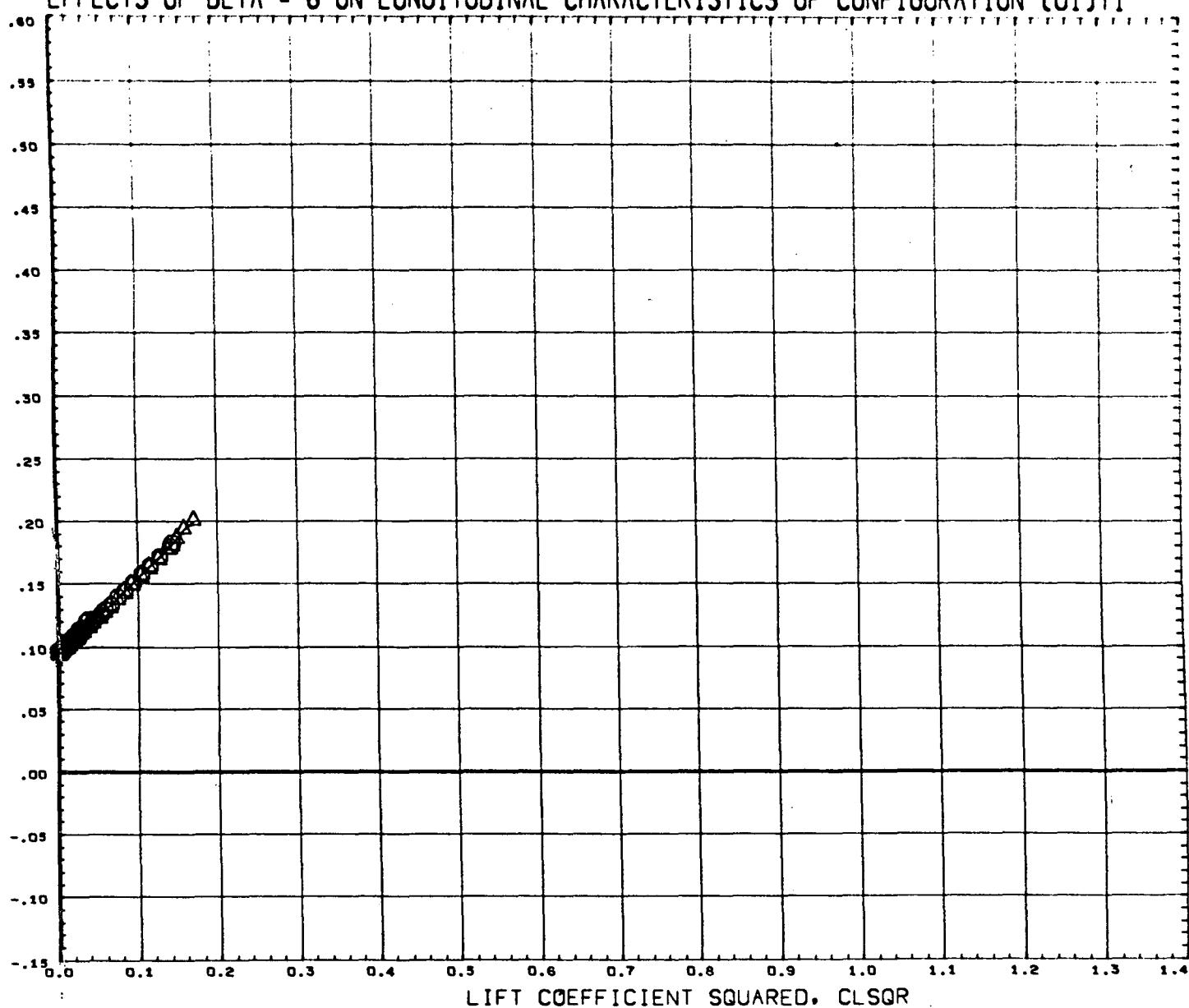
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
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6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 4.47

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1

FOREBODY DRAG COEFFICIENT, CDF



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7447) MDAC S-222 COMPOSITE (T-CG) (01) T1
 (CD7449) MDAC S-222 COMPOSITE (T-CG) (01) T1

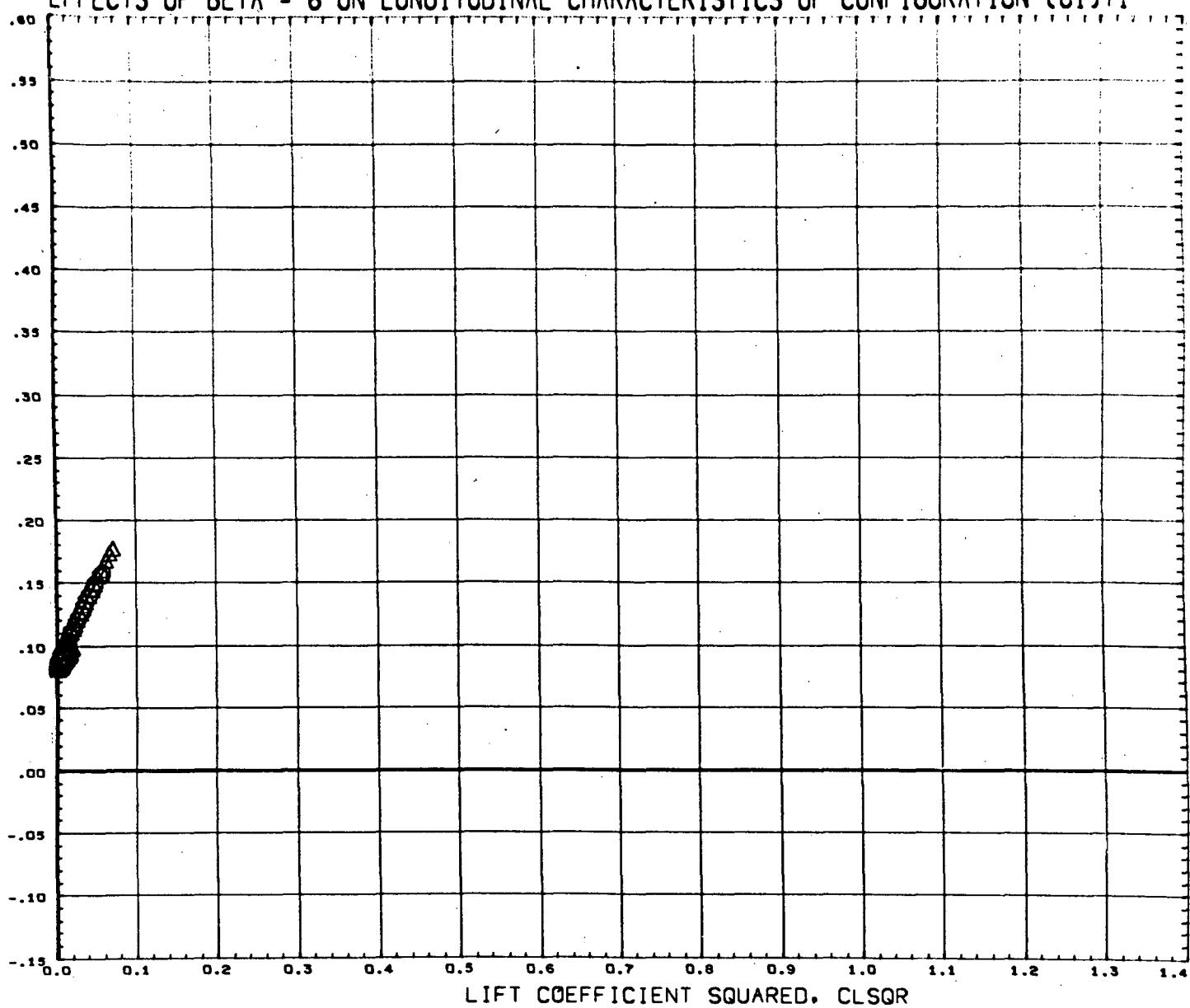
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF	609.5004 IN.
				BREF	882.0004 IN.
				XMRP	557.0004 IN.
				YMRP	0.0000 IN.
				ZMRP	200.0004 IN.
				SCALE	0.0060

MACH 2.20

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1

FOREBODY DRAG COEFFICIENT. CDF



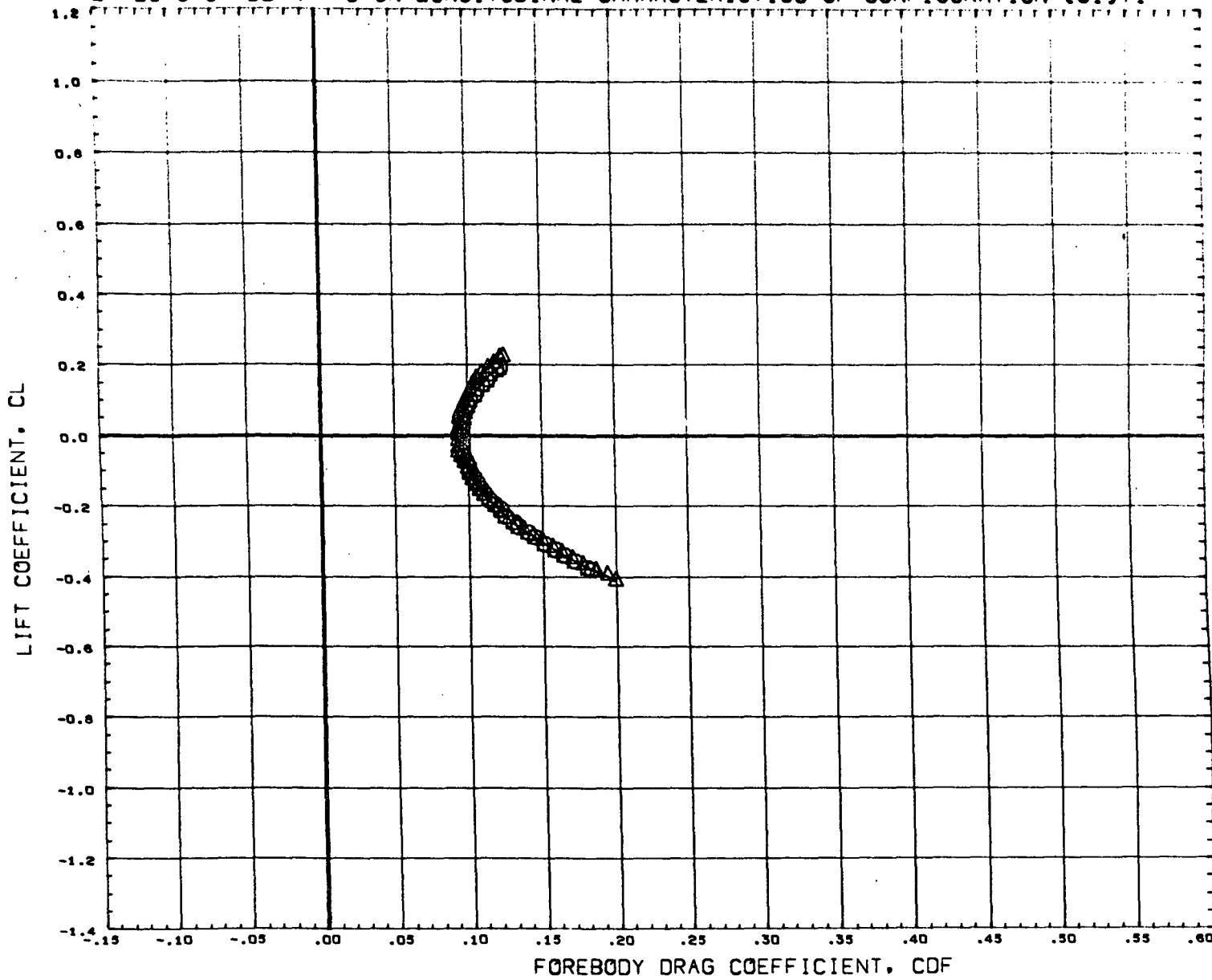
DATA SET SYMBOL CONFIGURATION DESCRIPTION
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 (CD7449) D MDAC S-222 COMPOSITE (T-CG) (O1)T1

BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
0.000	0.000	0.000	0.000	SREF	3155.3940 SQ.FT.
6.000	0.000	0.000	0.000	LREF	609.5004 IN.
				BREF	882.0004 IN.
				XMRP	557.0004 IN.
				YMRP	0.0000 IN.
				ZMRP	200.0004 IN.
				SCALE	0.0060

MACH 4.47

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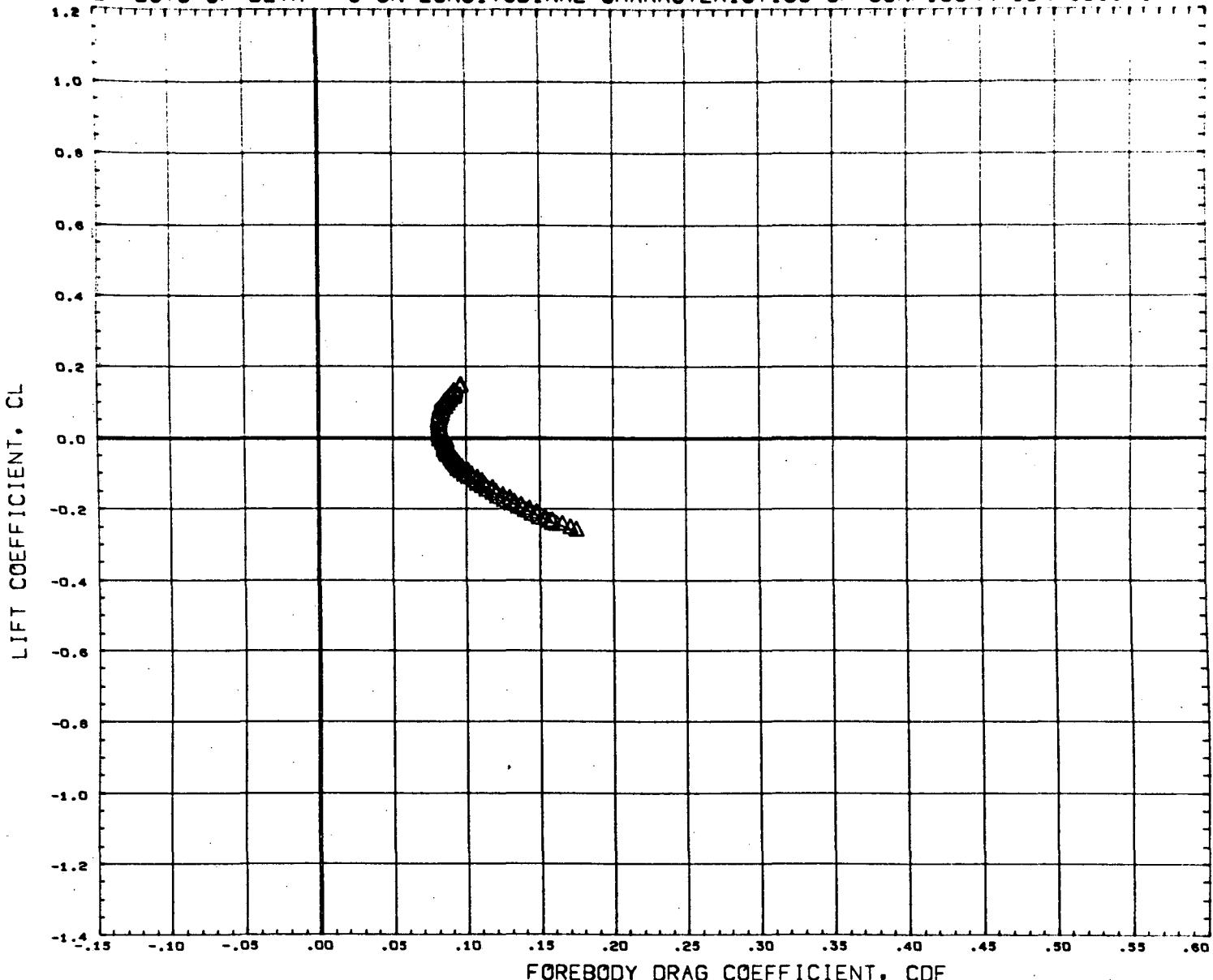
EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7447) Q MDAC S-222 COMPOSITE(T-CG) (01)T1
 (CD7449)

BETA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
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6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

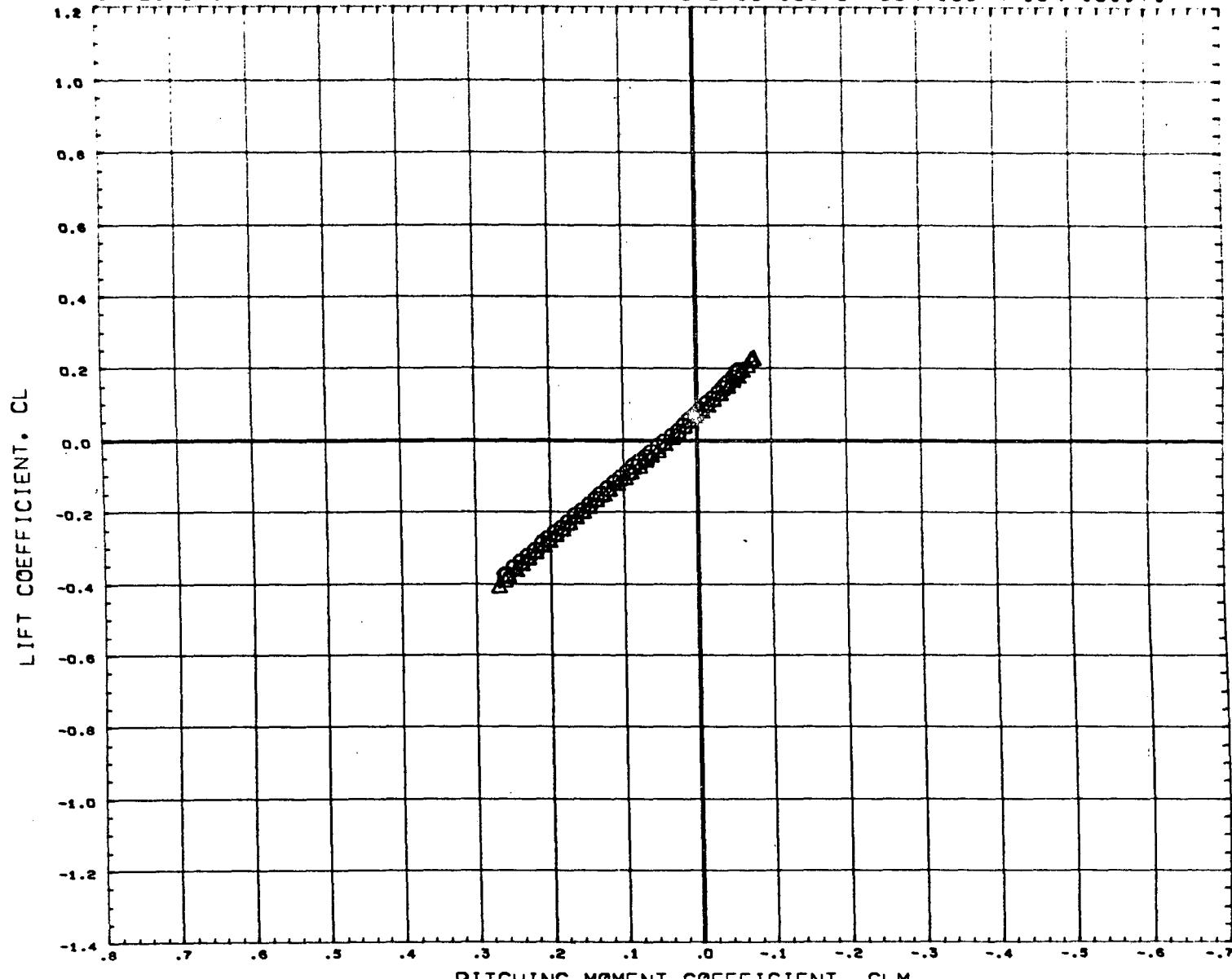
EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T1



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7447) MDAC S-222 COMPOSITE(T-CG) (01)T1
 (CD7449) MDAC S-222 COMPOSITE(T-CG) (01)T1

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(CD7447)	Q	MDAC S-222 COMPOSITE(T-CG) (O1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7449)	A	MDAC S-222 COMPOSITE(T-CG) (O1)T1	6.000	0.000	0.000	0.000	LREF	609.5004 IN.

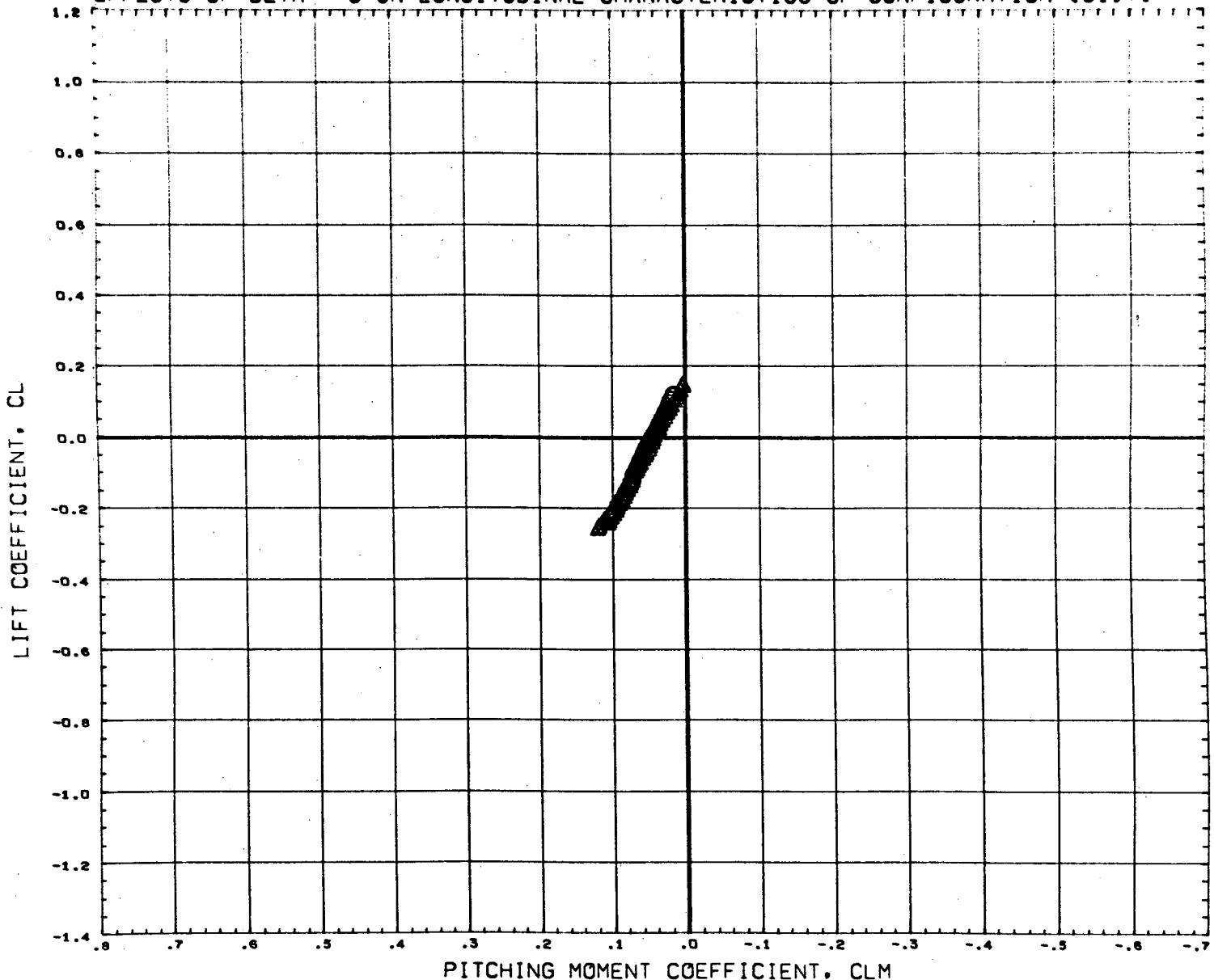
BREF 662.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

MACH

2.20

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T1

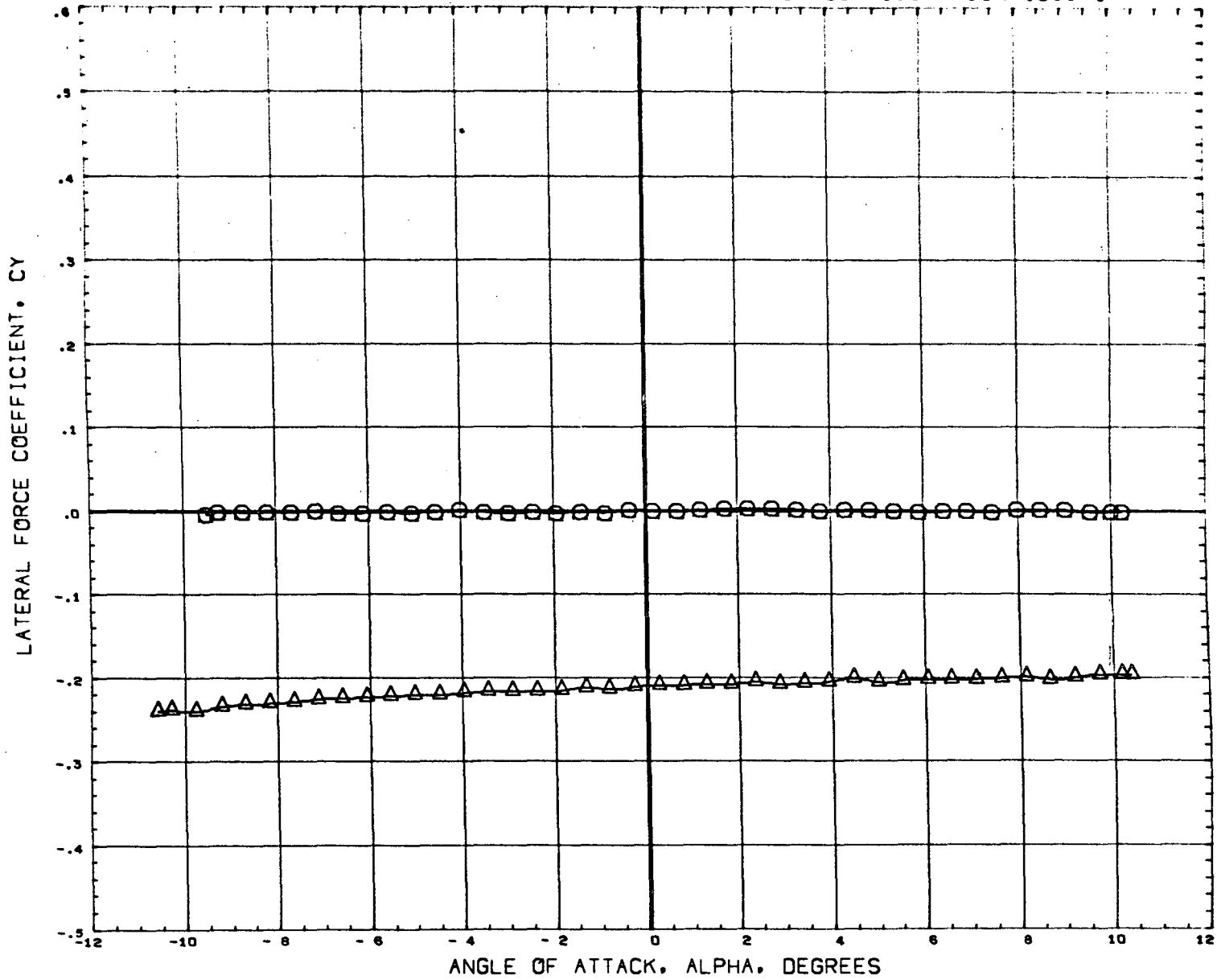


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7447)	Q	MDAC S-222 COMPOSITE(T-CG) (O1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7449)	Q	MDAC S-222 COMPOSITE(T-CG) (O1)T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 4.47

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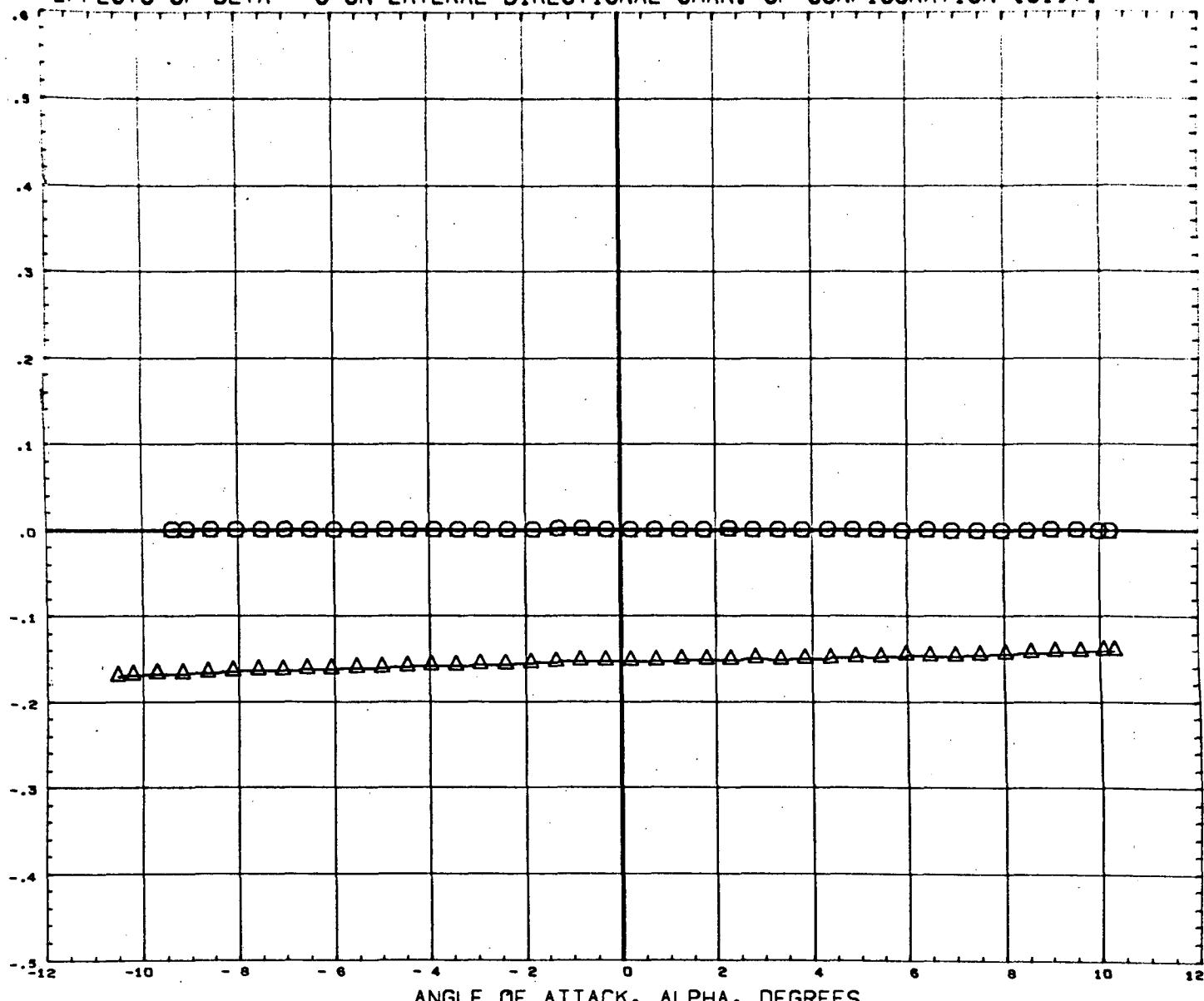
EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (01)T1



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
(RD7447)	MDAC S-222 COMPOSITE (T-CG) (01)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7449)	MDAC S-222 COMPOSITE (T-CG) (01)T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 862.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (01)T1

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7447) MDAC S-222 COMPOSITE(T-CG) (01)T1
 (RD7449) MDAC S-222 COMPOSITE(T-CG) (01)T1

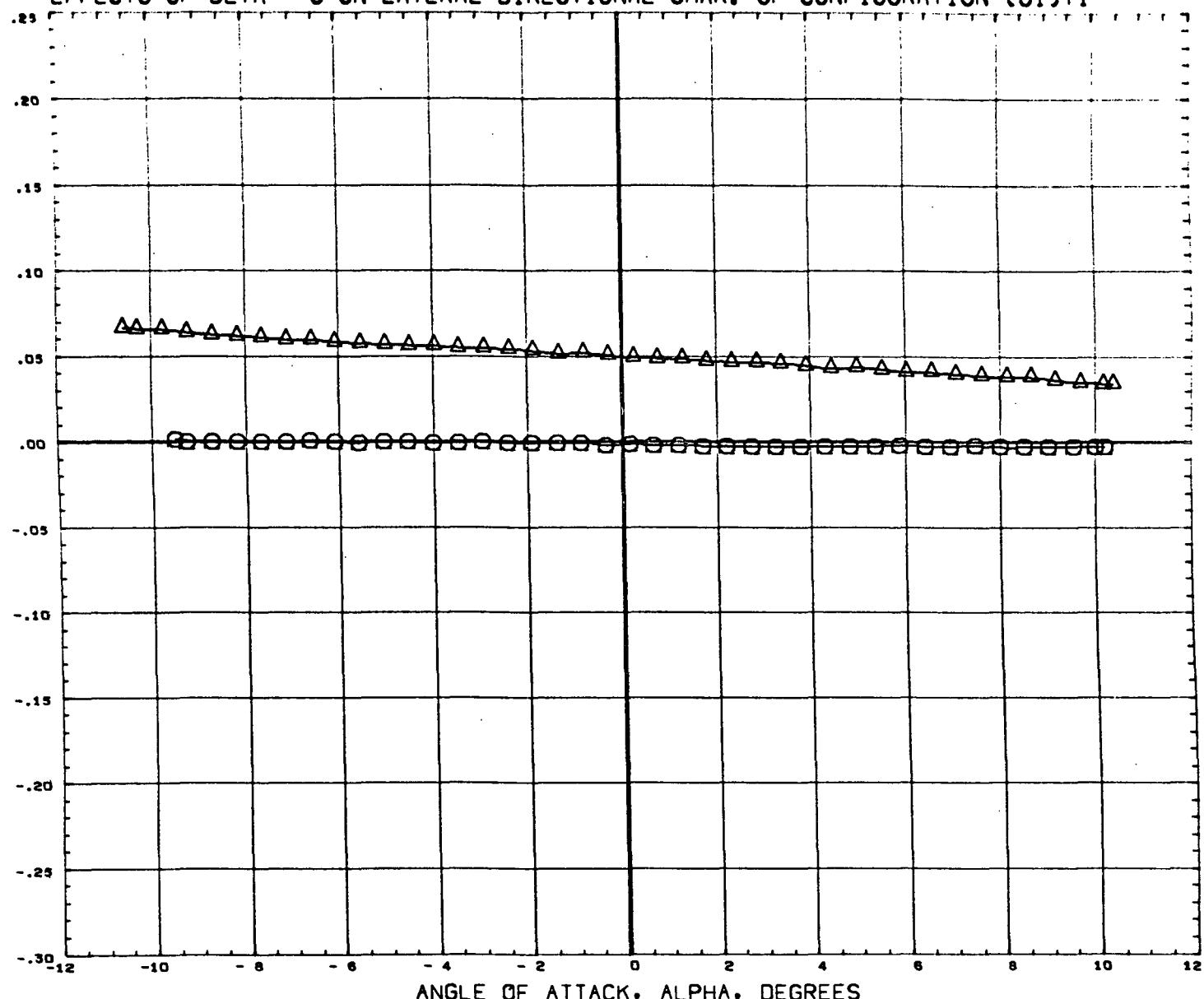
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
0.000	0.000	0.000	0.000	SREF	3155.3040 SO.FT.
6.000	0.000	0.000	0.000	LREF	609.5004 IN.
				BREF	882.0004 IN.
				XMRP	557.0004 IN.
				YMRP	0.0000 IN.
				ZMRP	200.0004 IN.
				SCALE	0.0060

MACH 4.47

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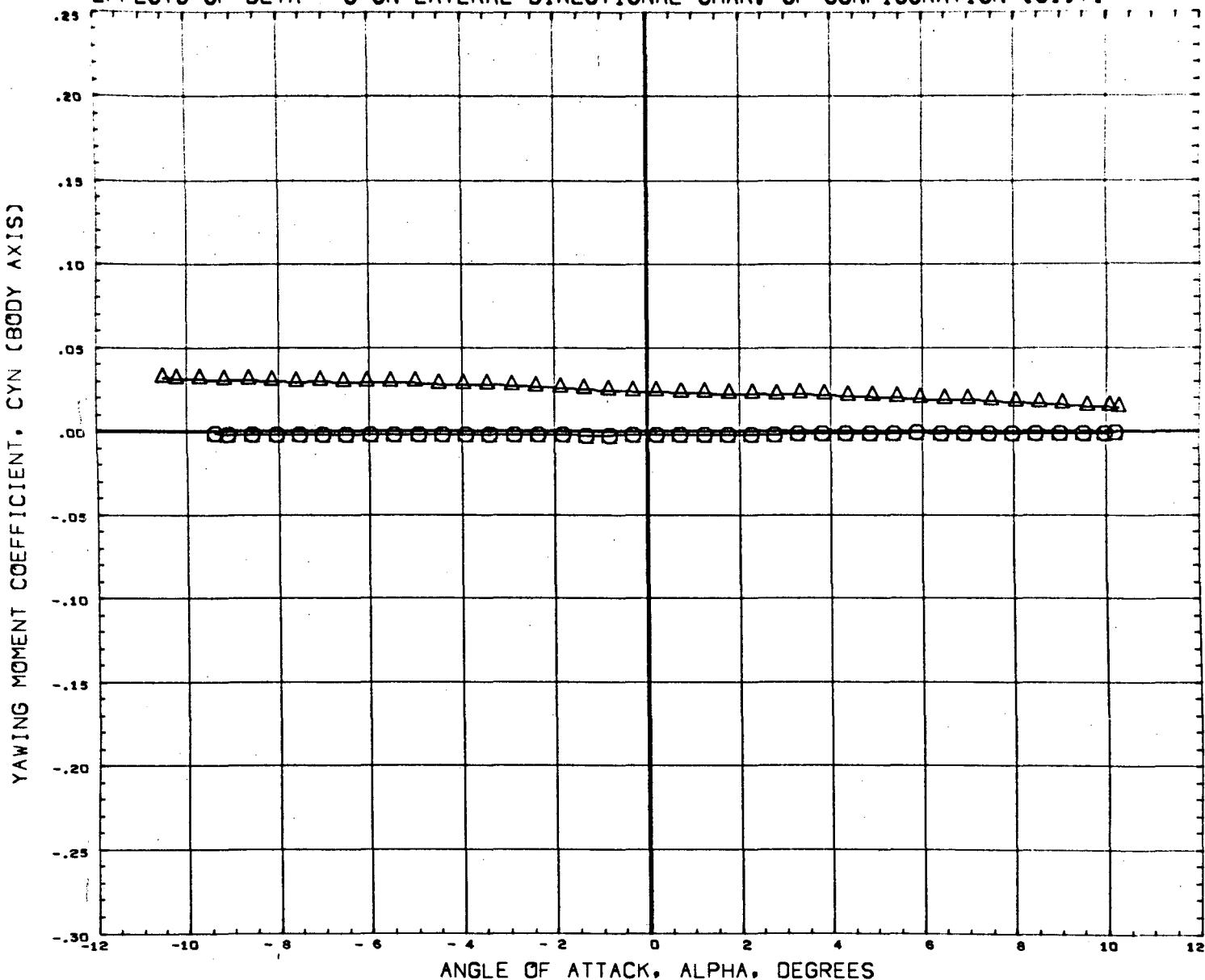
EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (O1)T1

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7447)	Q	MDAC S-222 COMPOSITE (T-CG) (O1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7449)	△	MDAC S-222 COMPOSITE (T-CG) (O1)T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (01)T1



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7447) MDAC S-222 COMPOSITE(T-CG) (01)T1
 (RD7449) MDAC S-222 COMPOSITE(T-CG) (01)T1

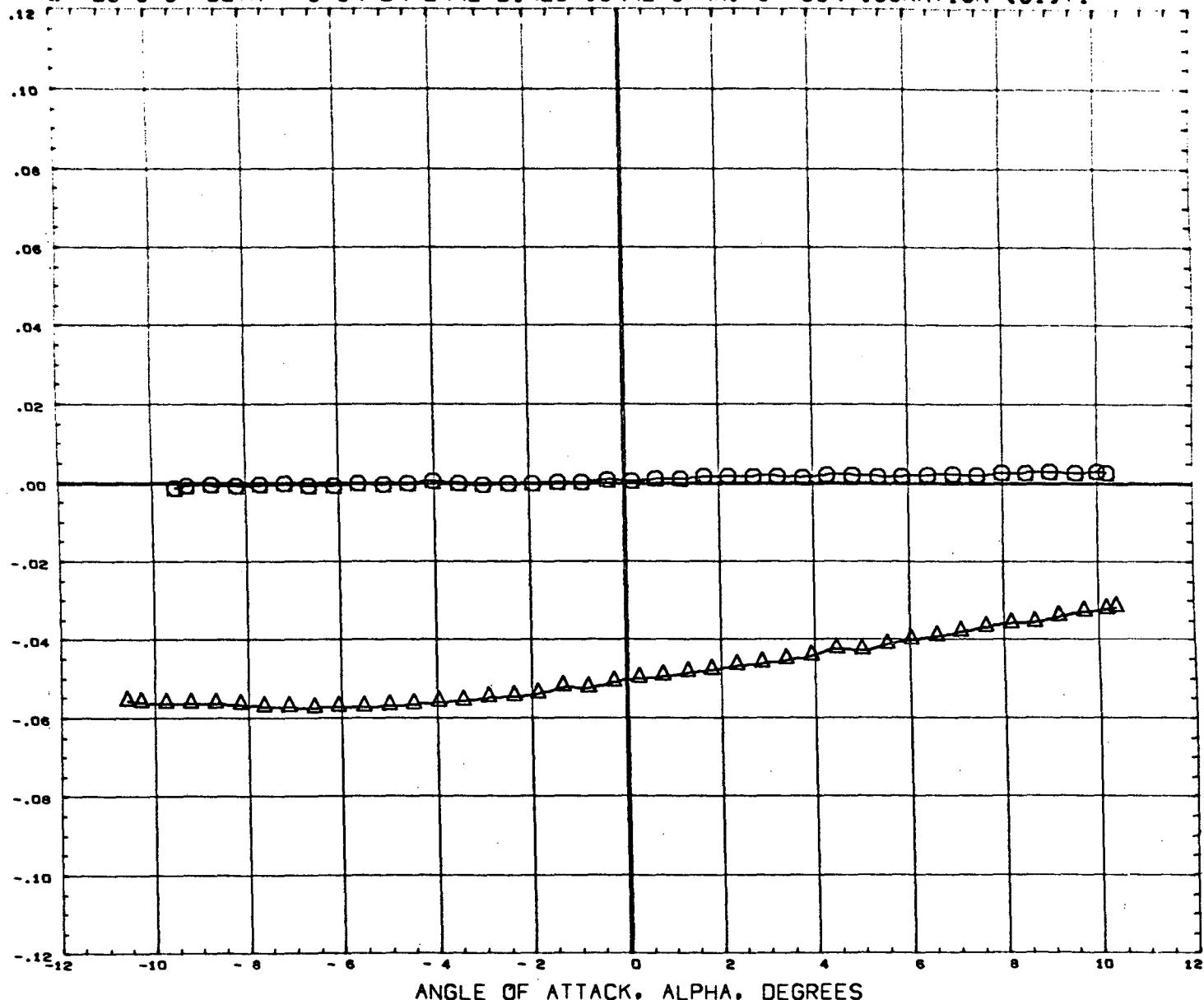
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 605.5004 IN.
				BREF 862.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.00060

MACH 4.47

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EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (O1)T1

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

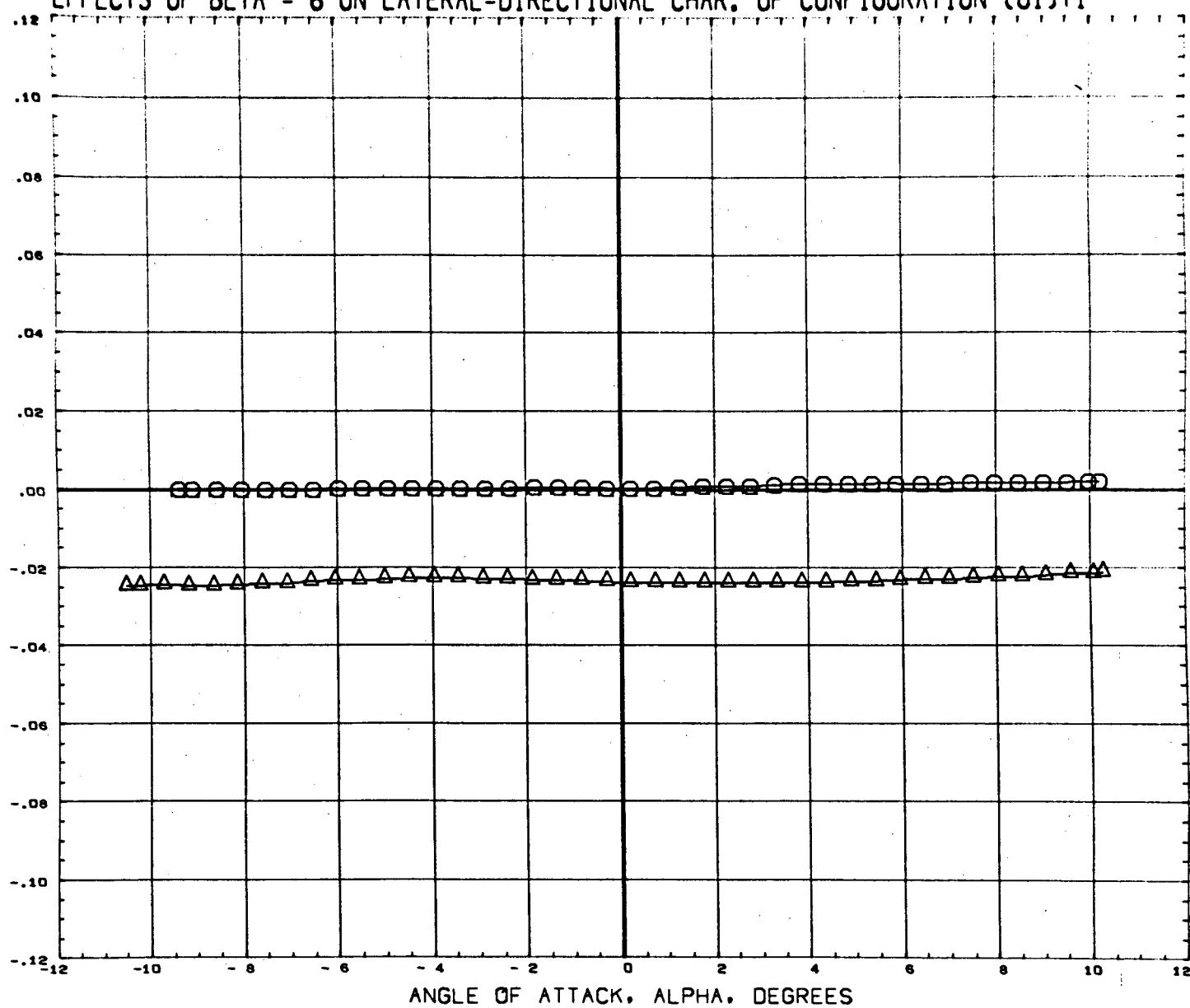


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (FD7447) MDAC S-222 COMPOSITE (T-CG) (O1)T1
 (FD7449) MDAC S-222 COMPOSITE (T-CG) (O1)T1

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (O1)T1

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

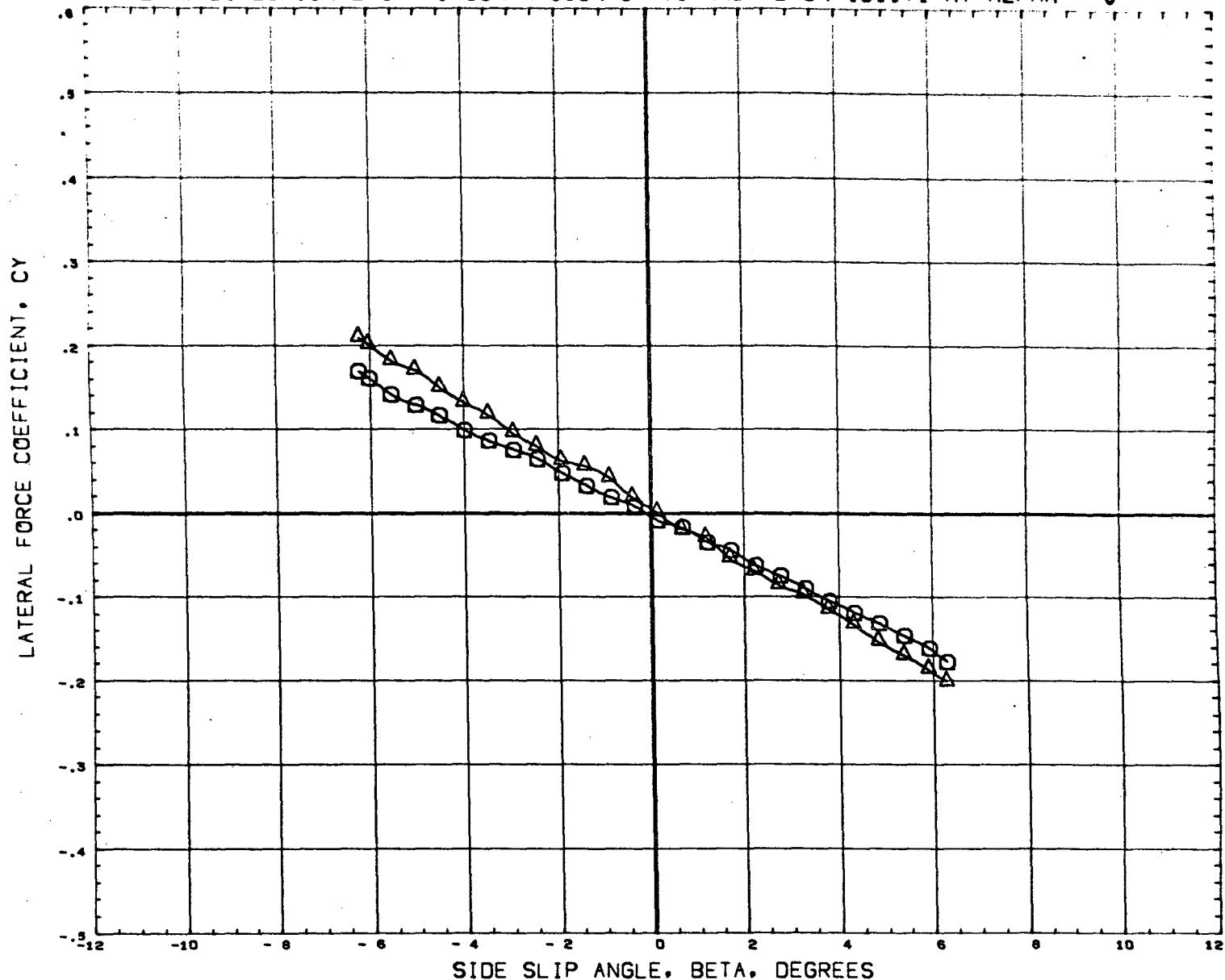
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
(RD7447)	Q	MDAC S-222 COMPOSITE(T-CG) (O1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7449)	A	MDAC S-222 COMPOSITE(T-CG) (O1)T1	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH

4.47

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LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (O1)T1 AT ALPHA = 0

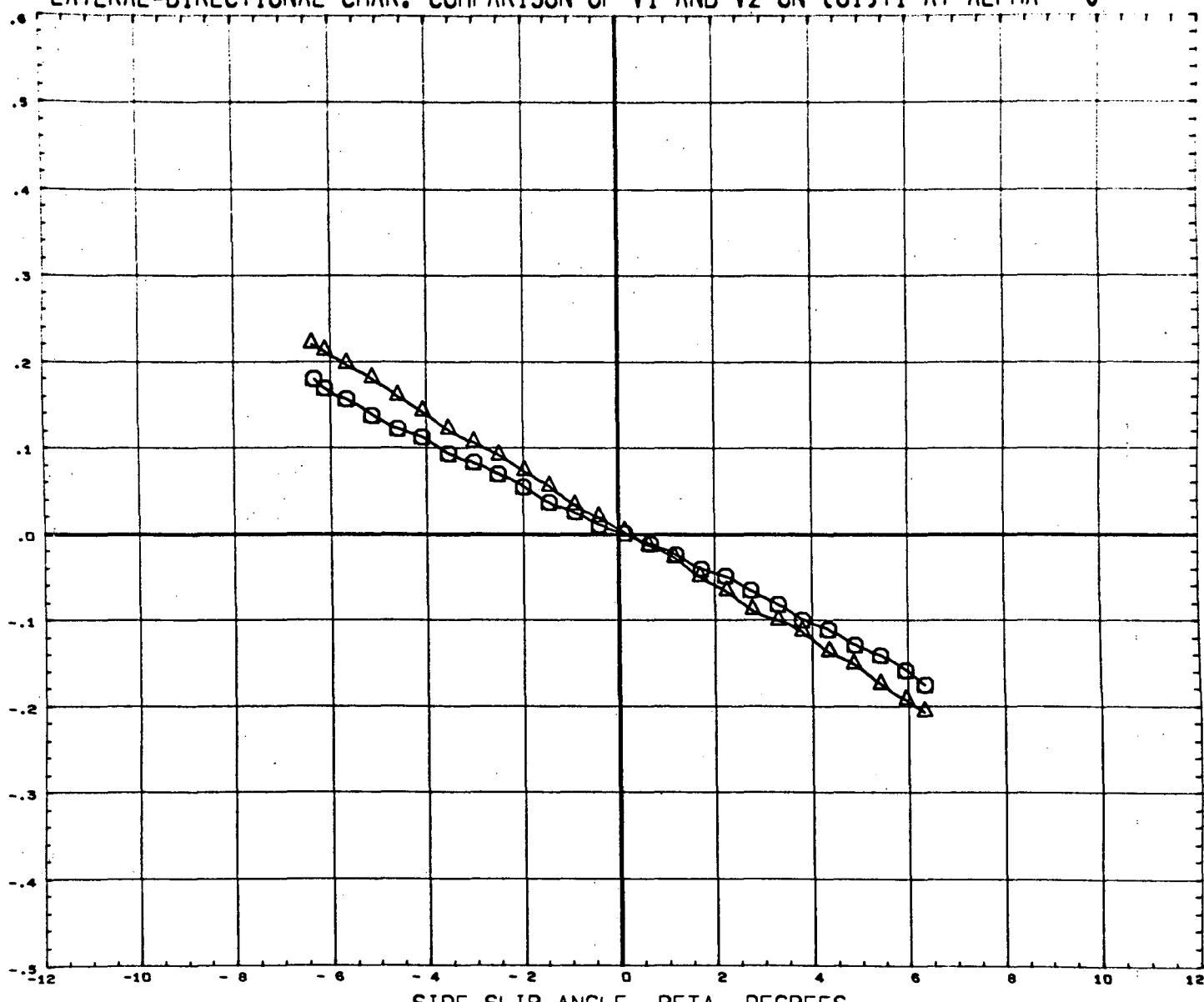


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) MDAC S-222 COMPOSITE (T-CG) (O1)V1 T1
 (ED7448) MDAC S-222 COMPOSITE (T-CG) (O1)T1

ALPHA	ELEVTR	AIRON	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

LATERAL FORCE COEFFICIENT, CY



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION		
(RD7442)	Q	MDAC S-222 COMPOSITE (T-CG) (01)V1 T1	0.000	0.000	0.000	0.000	SREF	3155.3040	SO.FT.
(ED7448)	R	MDAC S-222 COMPOSITE (T-CG) (01)T1	0.000	0.000	0.000	0.000	LREF	609.5004	IN.

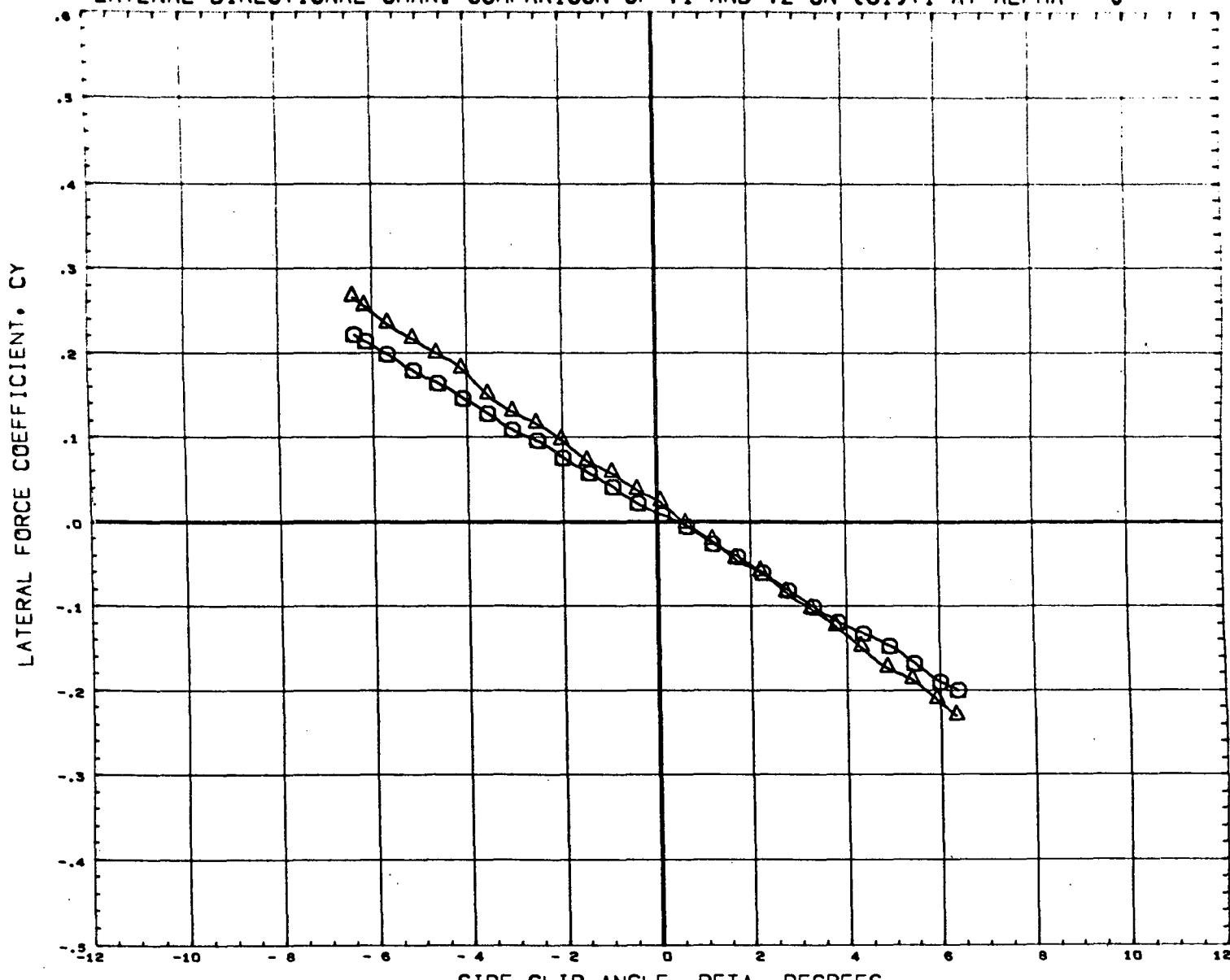
BREF 882.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

MACH

.90

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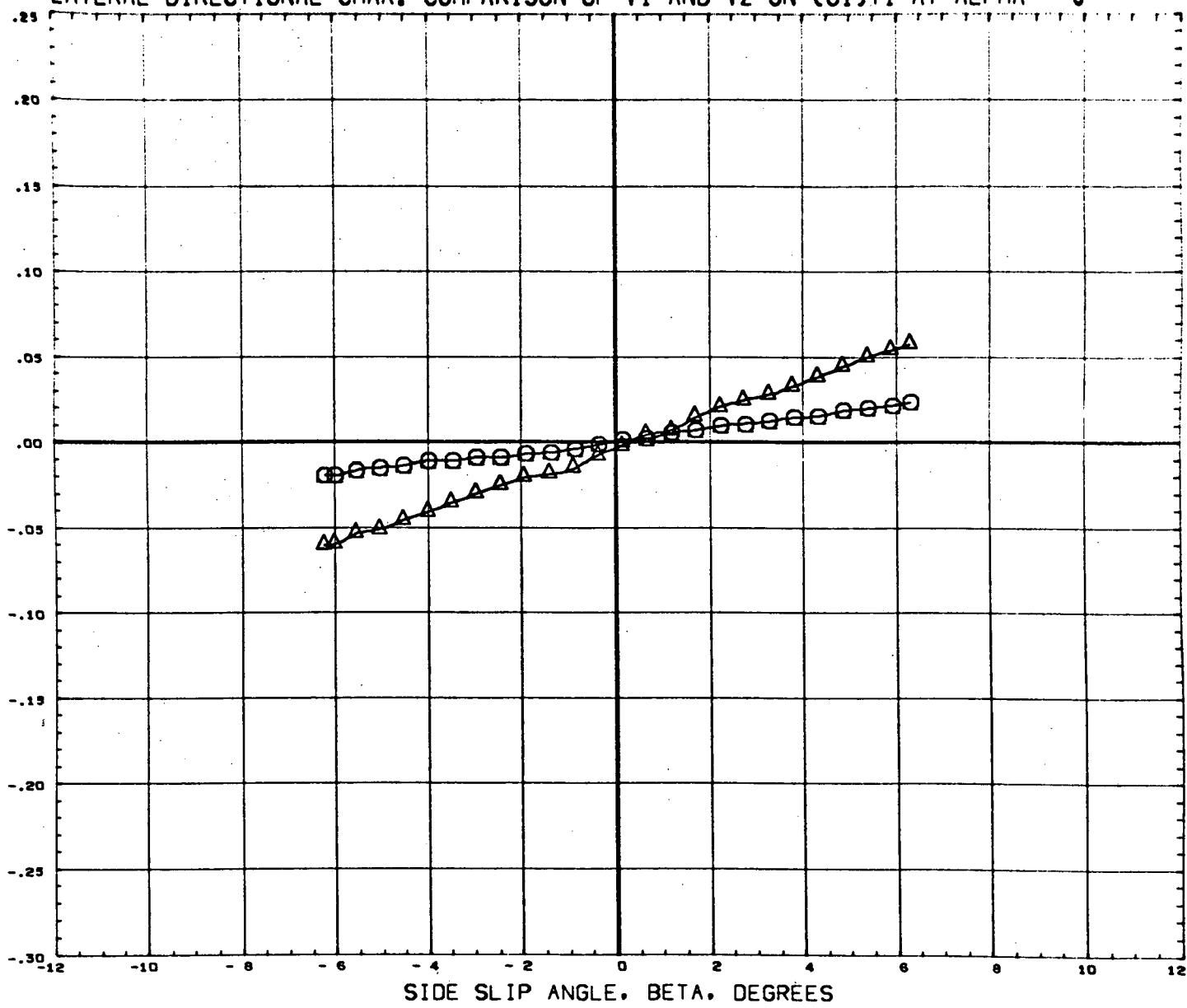
LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (O1)T1 AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7442)	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(ED7448)	MDAC S-222 COMPOSITE (T-CG) (O1)T1	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
(RD7442)	Q	MDAC S-222 COMPOSITE(T-CG) (01)V1 T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(ED7448)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

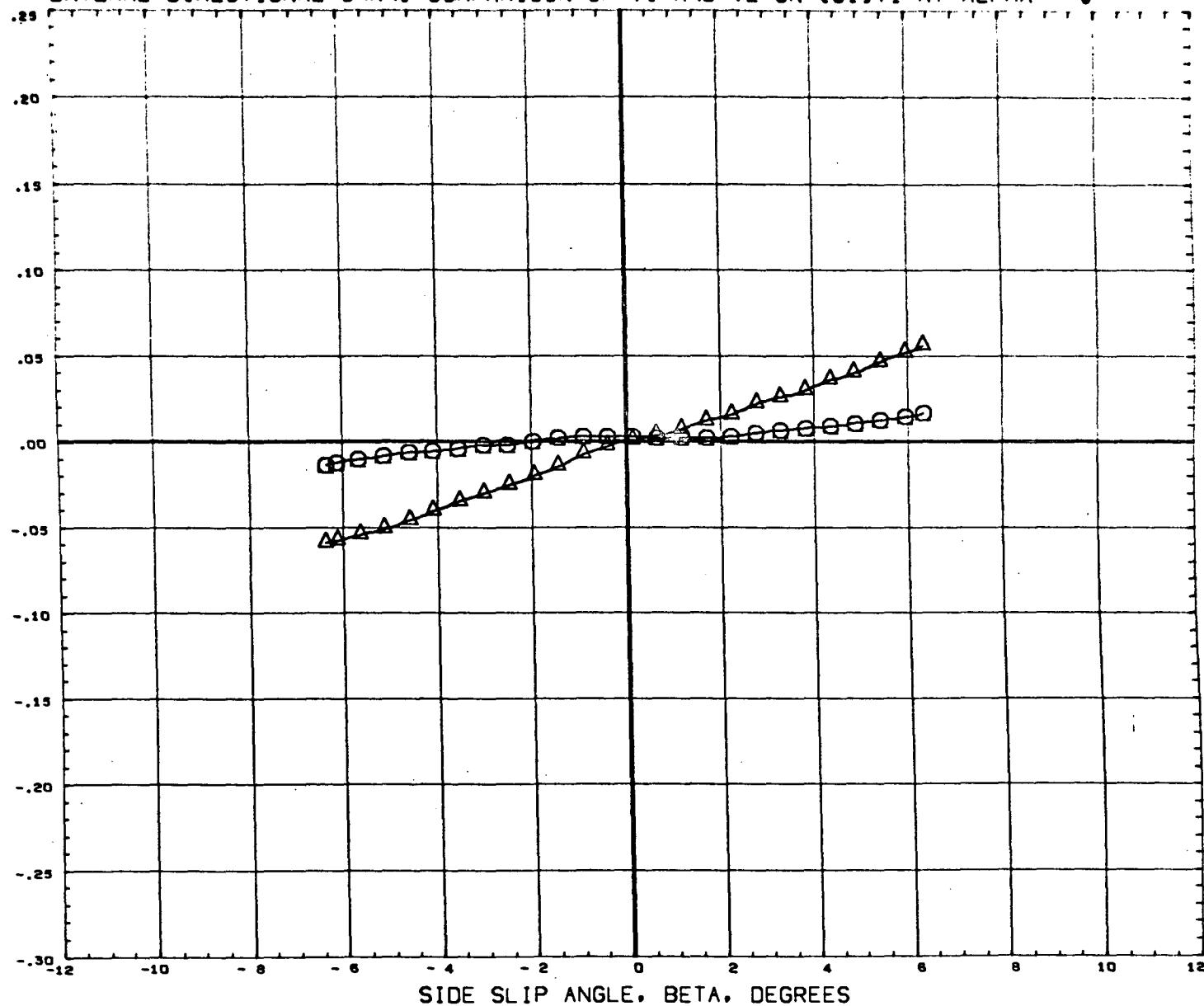
MACH

.60

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LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (O1)T1 AT ALPHA = 0

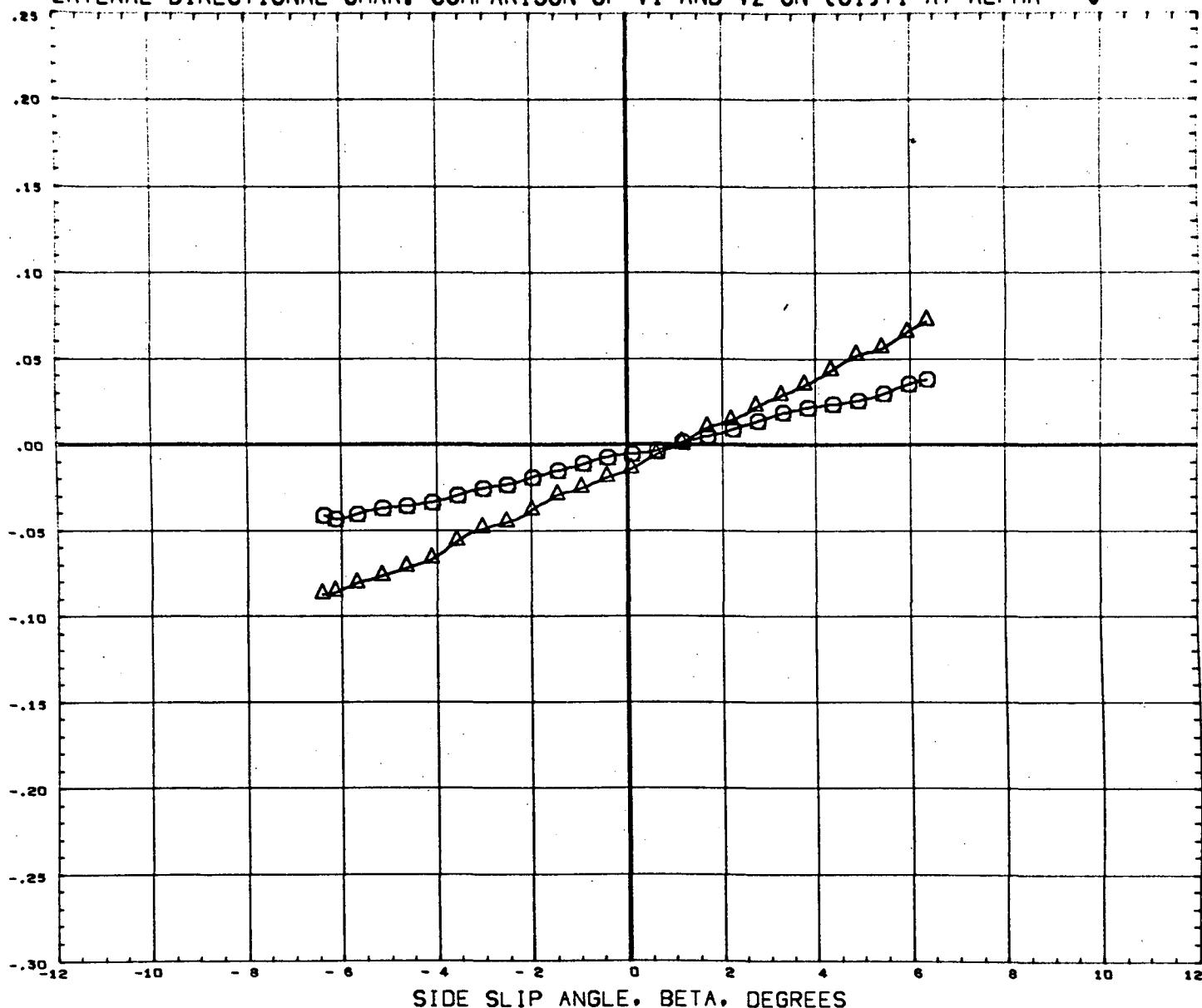
YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION	
						SREF	SQ.FT.
(RD7442)	MDAC S-222 COMPOSITE (T-CG) (O1)V1 T1	0.000	0.000	0.000	0.000	3155.3040	IN.
(ED7448)	MDAC S-222 COMPOSITE (T-CG) (O1)T1	0.000	0.000	0.000	0.000	609.5004	IN.
						BREF	882.0004 IN.
						XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) MDAC S-222 COMPOSITE (T-CG) (01V1)T1
 (ED7448) MDAC S-222 COMPOSITE (T-CG) (01)T1

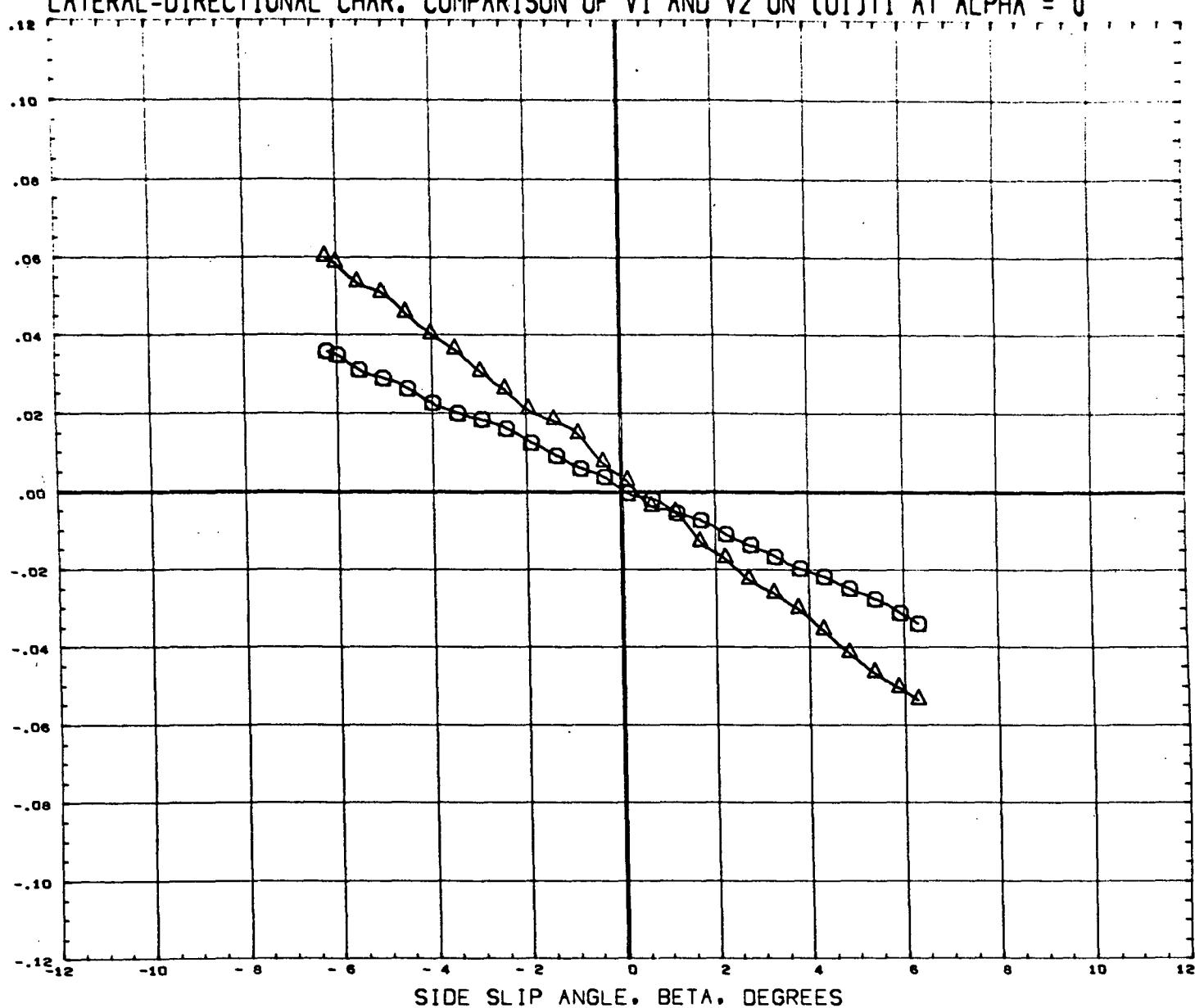
ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.10

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LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

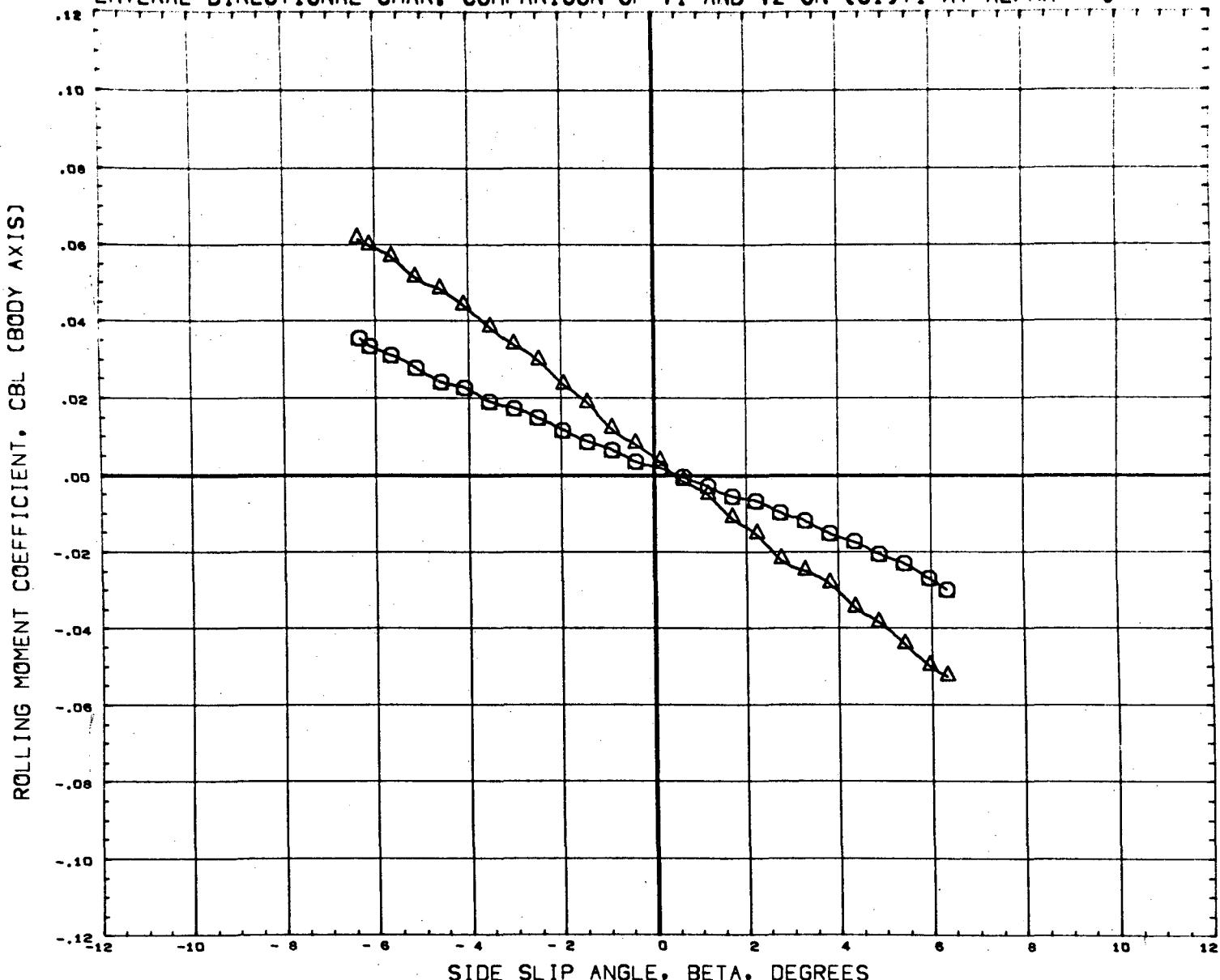
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
						SREF	3155.3040	SQ.FT.
(RD7442)	MDAC S-222 COMPOSITE (T-CG) (01V1) T1	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
(ED7448)	MDAC S-222 COMPOSITE (T-CG) (01) T1	0.000	0.000	0.000	0.000	BREF	862.0004	IN.
						XMRP	557.0004	IN.
						YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

MACH

.60

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LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) Q MDAC S-222 COMPOSITE(T-CG) (01V1)T1
 (ED7448) Q MDAC S-222 COMPOSITE(T-CG) (01)T1

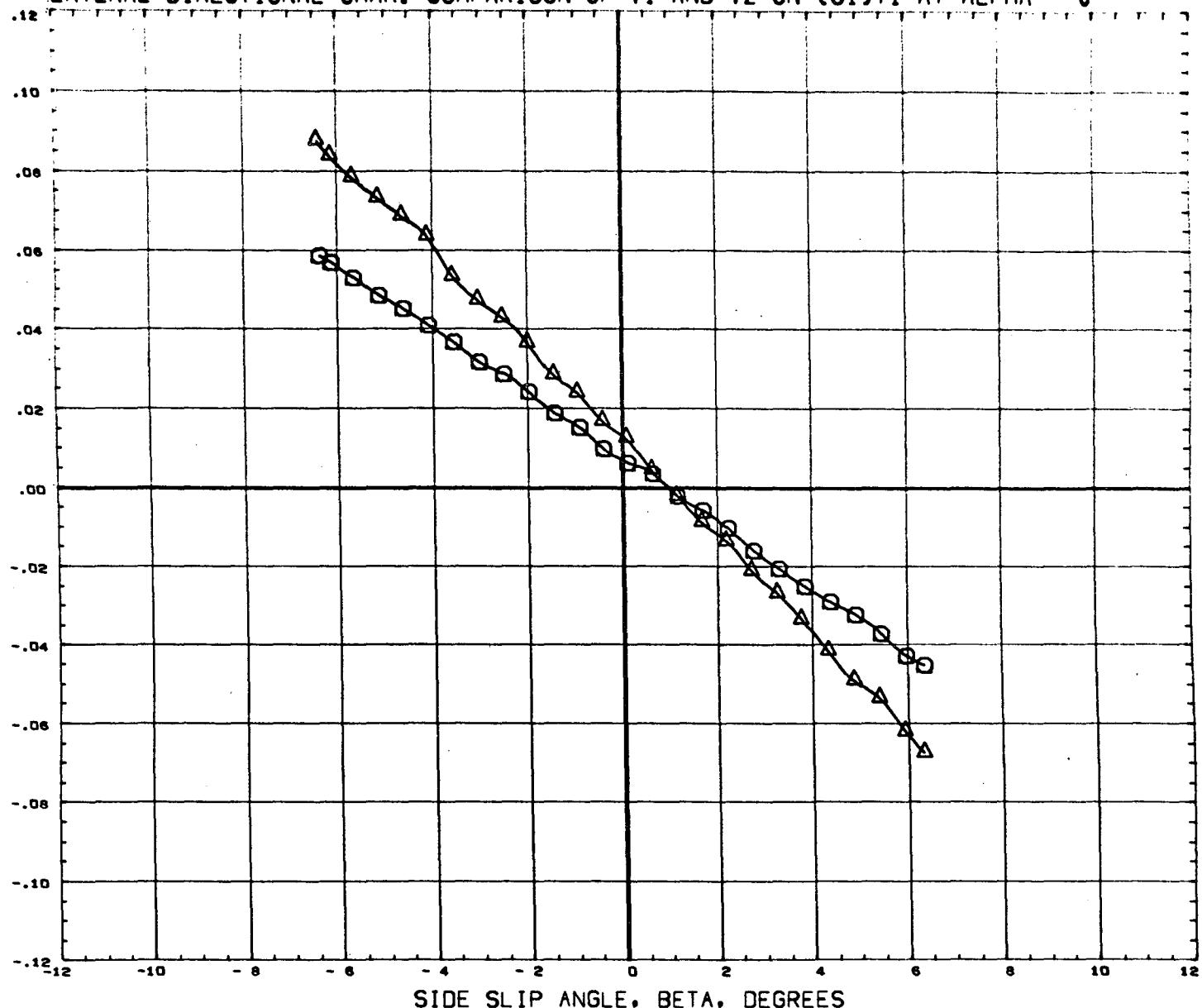
ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH .90

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LATERAL-DIRECTIONAL CHAR. COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



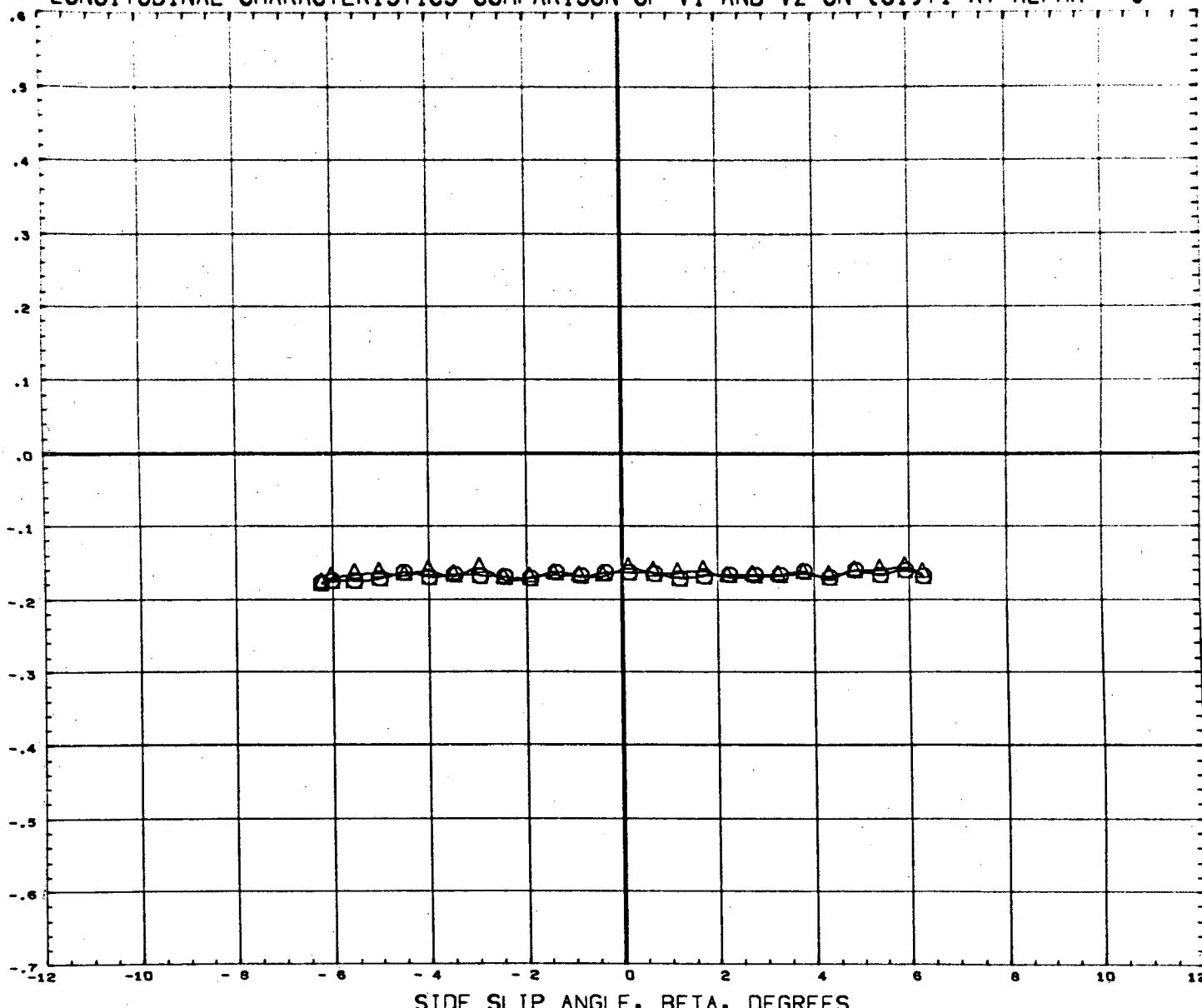
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	3155.3040 SQ.FT.
(RD7442)	MDAC S-222 COMPOSITE(T-CG) (01)V1 T1	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
(ED7448)	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	BREF	882.0004 IN.
						XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.10

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LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

NORMAL FORCE COEFFICIENT. CN



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(CD7442)	Q	MDAC S-222 COMPOSITE(T-CG) (01)V1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(DD7448)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

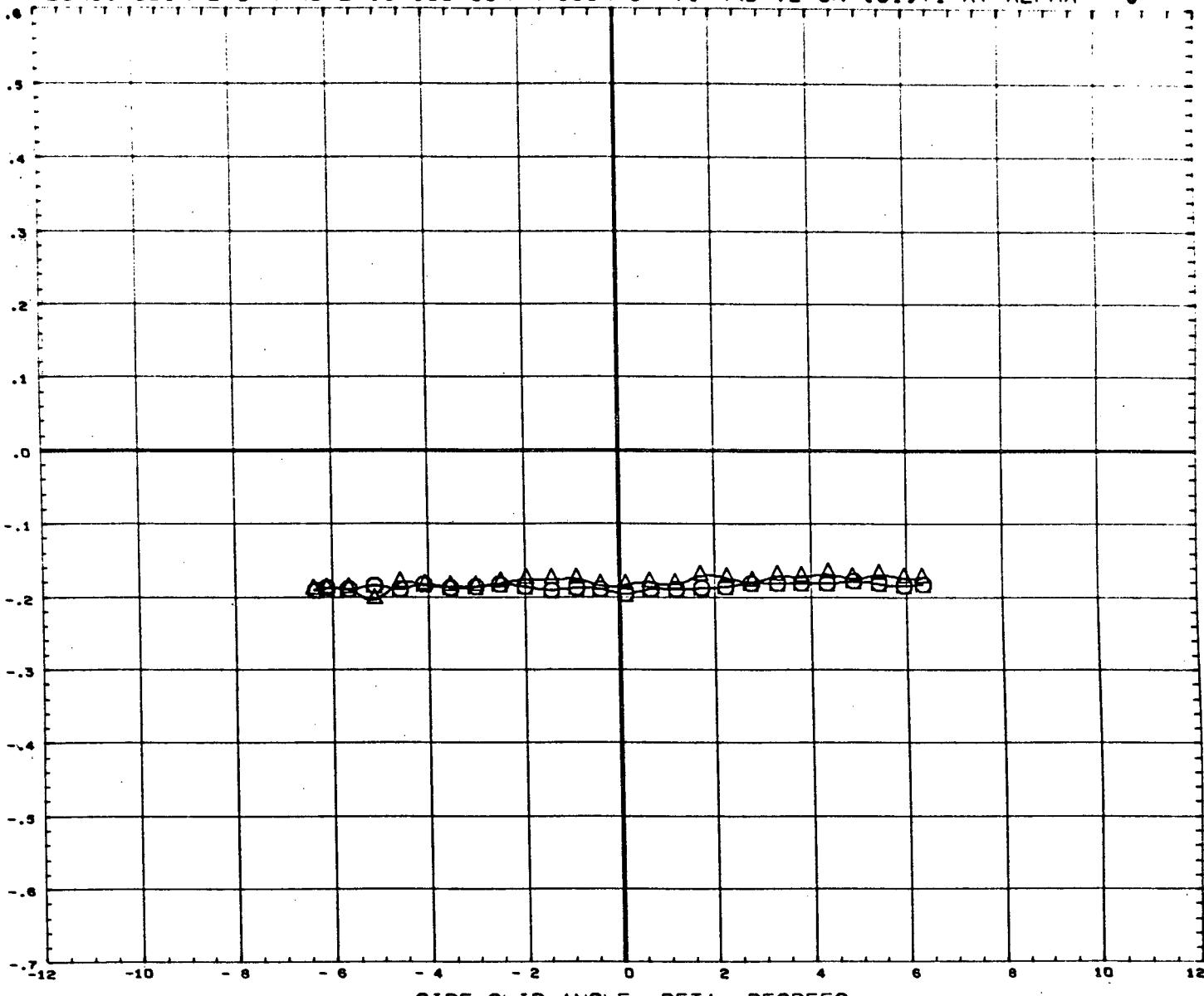
MACH

.60

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LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

NORMAL FORCE COEFFICIENT, CN

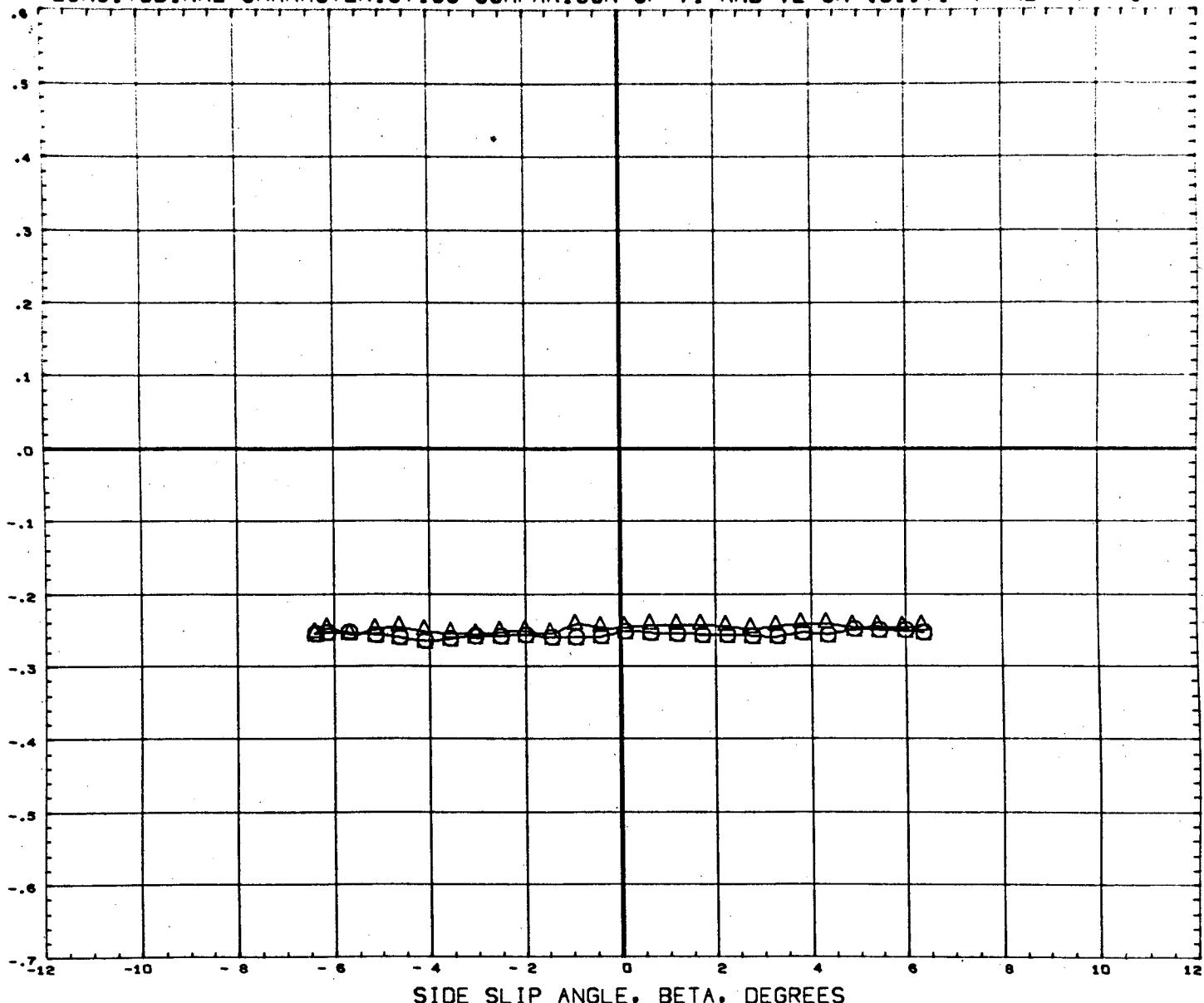


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	3155.3040 SQ.FT.
(CD7442)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
(DD7448)	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	BREF	882.0004 IN.
						XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

NORMAL FORCE COEFFICIENT, CN



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7442) MDAC S-222 COMPOSITE(T-CG) (01V1)T1
 (DD7448) MDAC S-222 COMPOSITE(T-CG) (01)T1

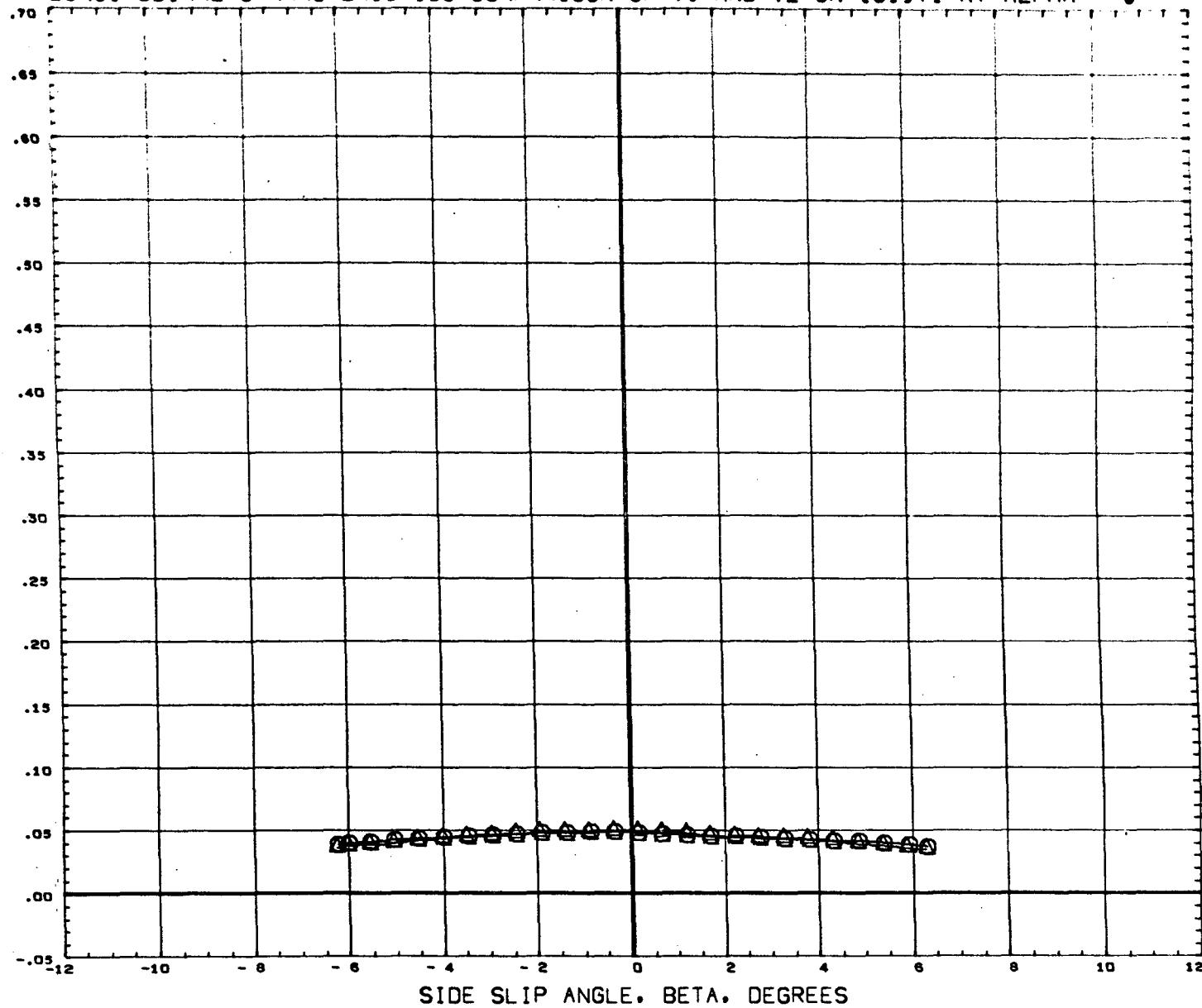
ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.10

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LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

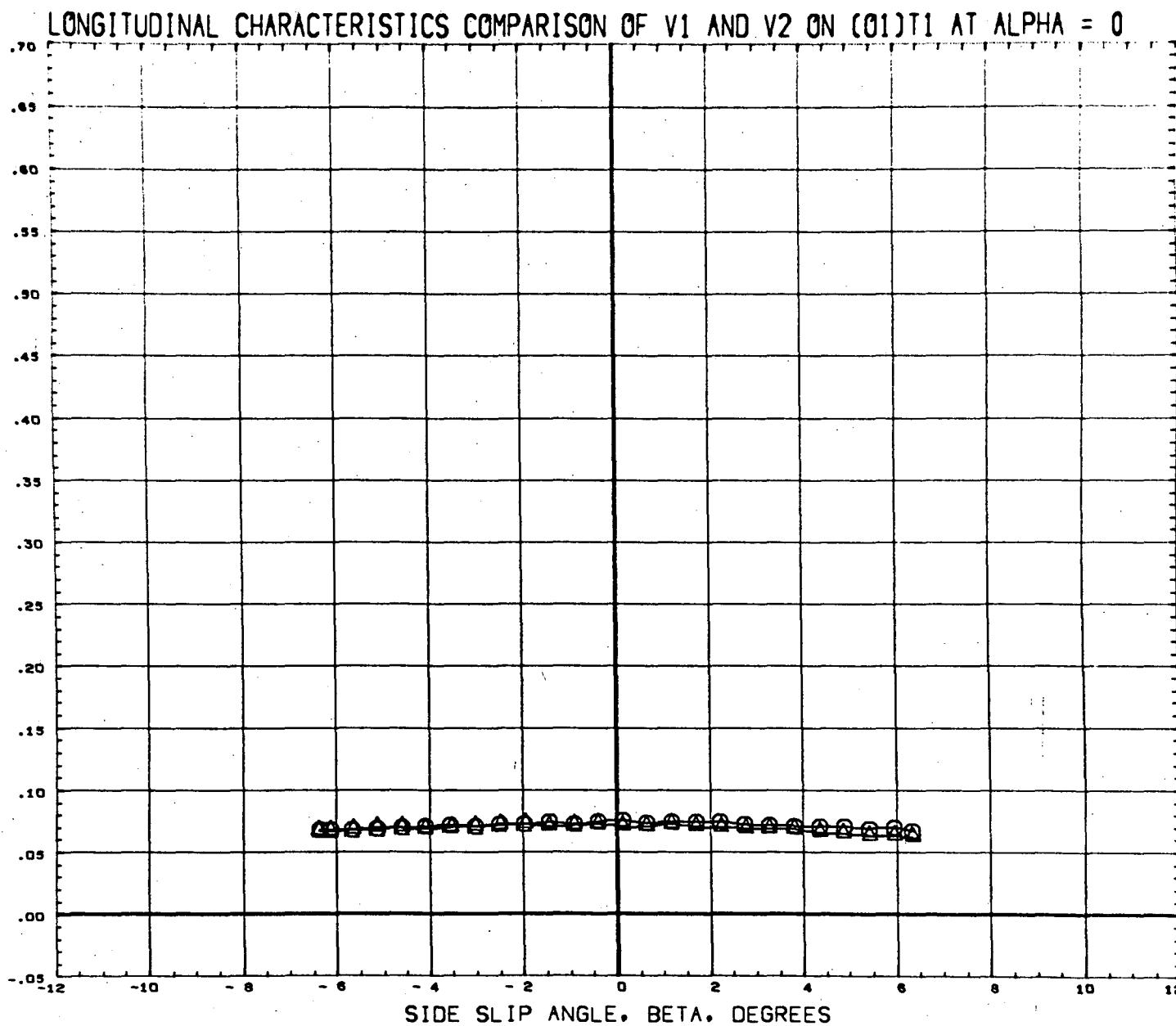
FOREBODY AXIAL FORCE COEFFICIENT, CAF



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7442) Q MDAC S-222 COMPOSITE (T-CG) (01)V1 T1
 (DD7448) A MDAC S-222 COMPOSITE (T-CG) (01)T1

ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

FOREBODY AXIAL FORCE COEFFICIENT, CAF

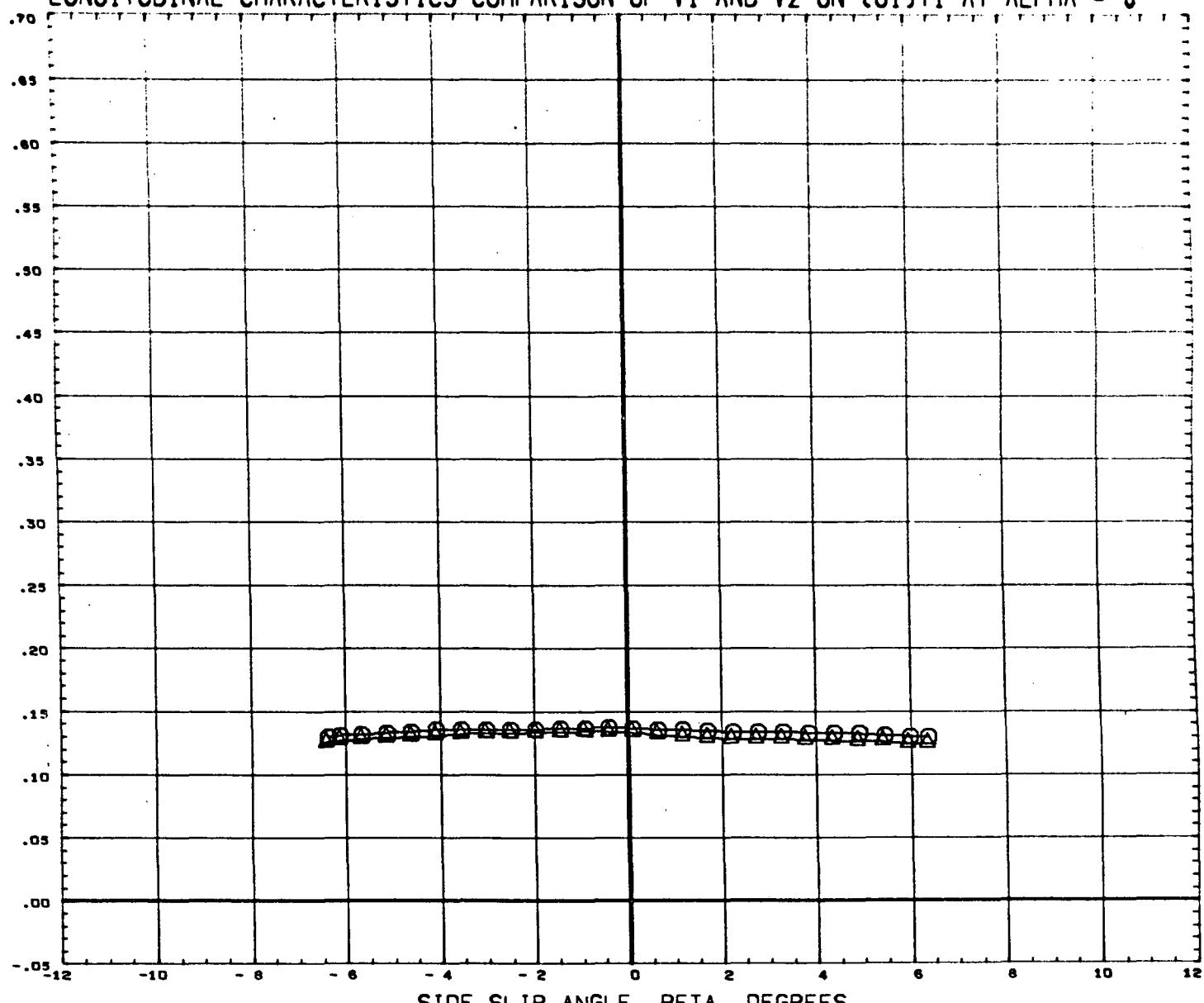


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7442) MDAC S-222 COMPOSITE(T-CG) (01V1) T1
 (DD7448) MDAC S-222 COMPOSITE(T-CG) (01) T1

	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION	
(CD7442)	0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(DD7448)	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
					BREF	882.0004	IN.
					XMRP	557.0004	IN.
					YMRP	0.0000	IN.
					ZMRP	200.0004	IN.
					SCALE	0.0060	

LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT. CAF



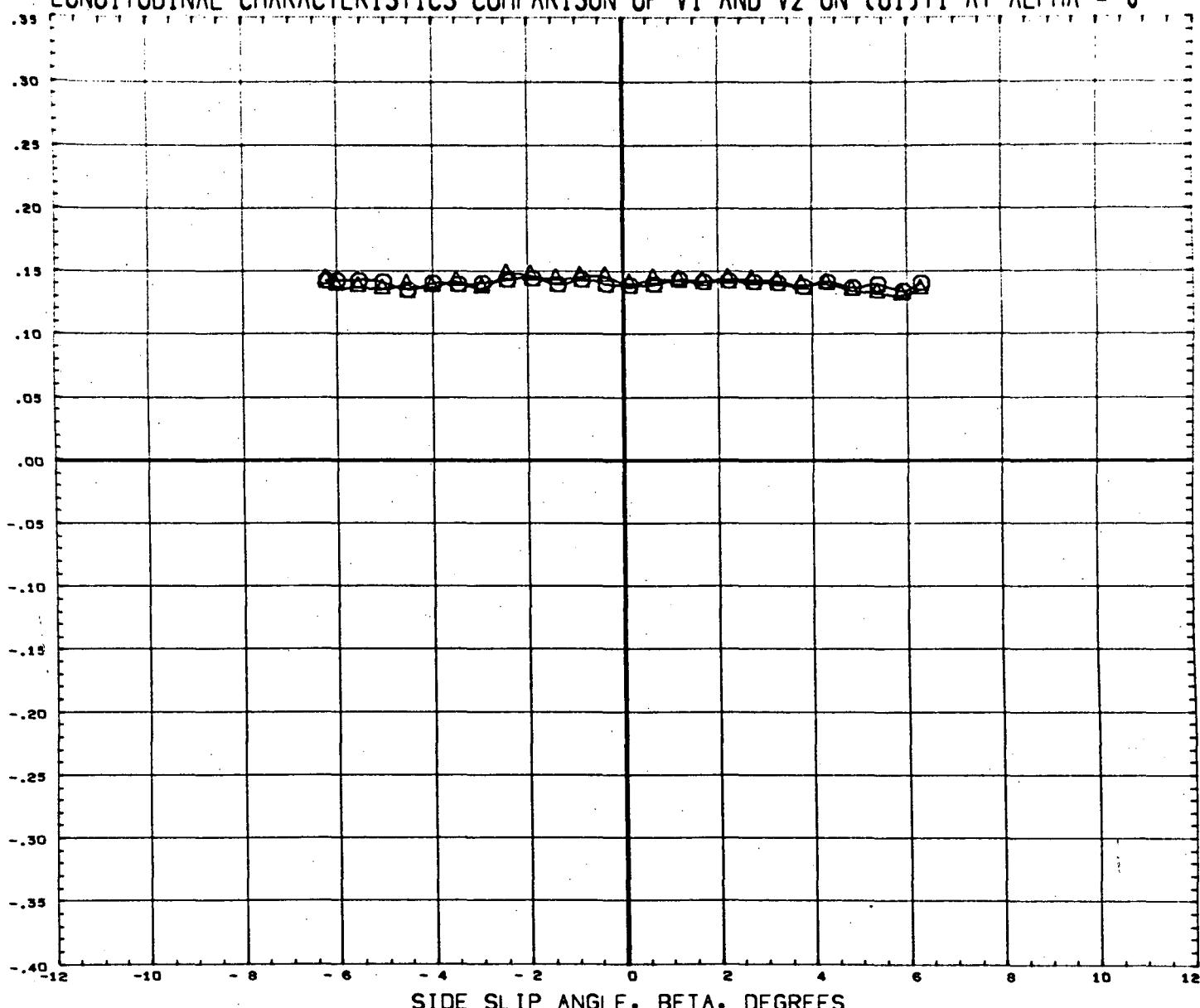
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(CD7442)	Q	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(DD7448)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH 1.10

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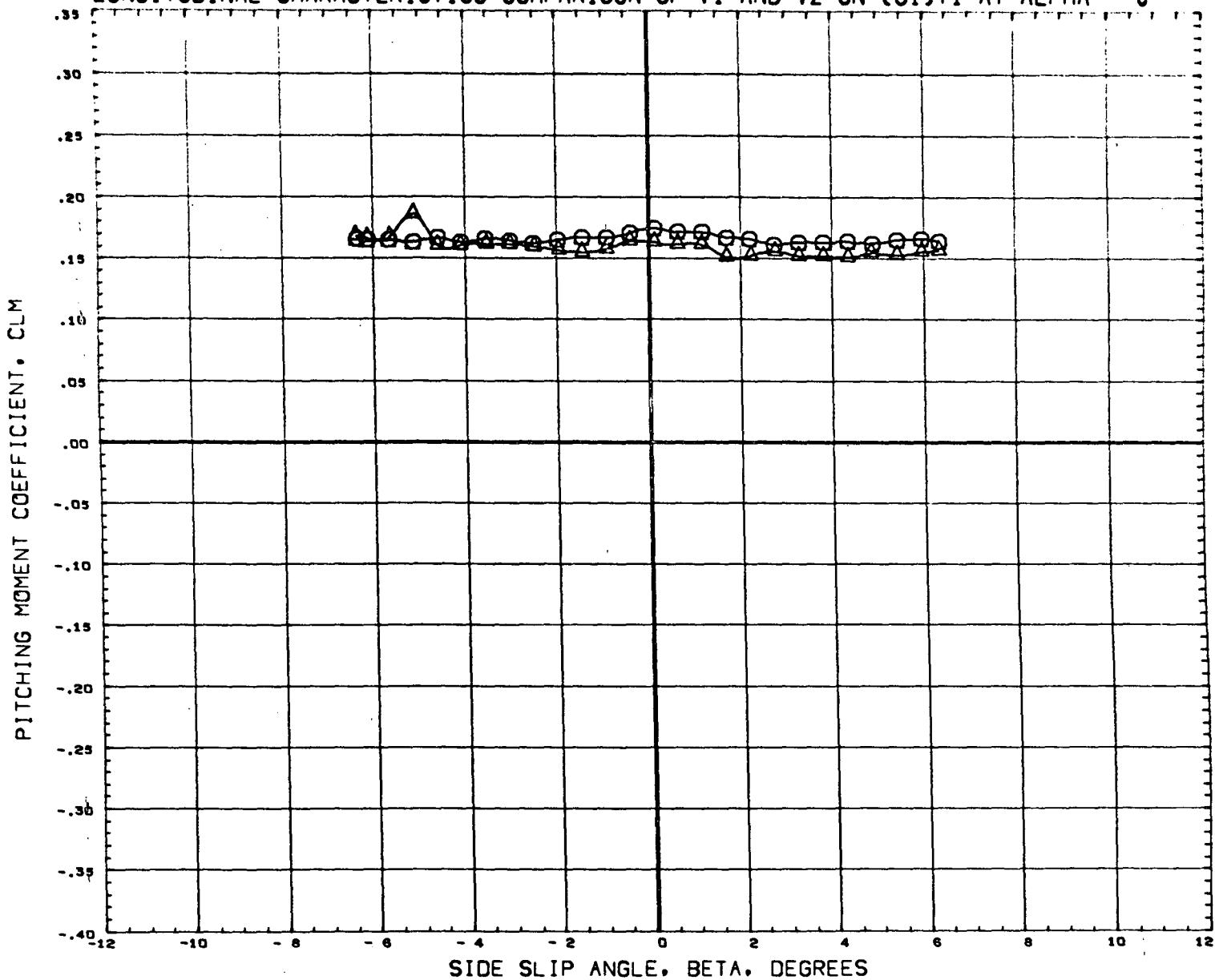
LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

PITCHING MOMENT COEFFICIENT. CLM



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7442)	Q	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7448)	R	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0



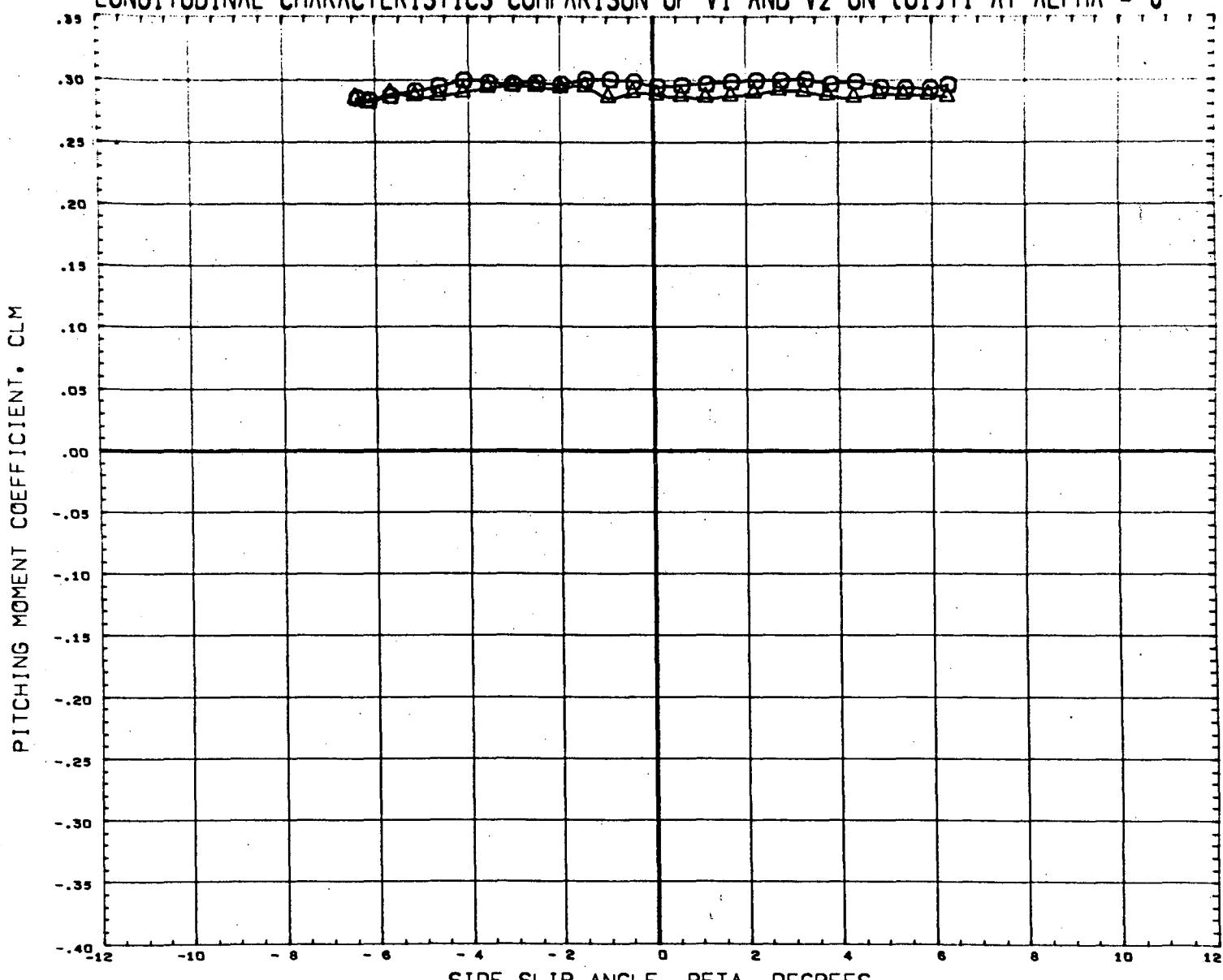
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	REFERENCE INFORMATION		
			ELEVTR	AIRLON	RUDER
(CD7442)	MDAC S-222 COMPOSITE(T-CG) (01)V1 T1	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(DD7448)	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.	
				XMRP 557.0004 IN.	
				YMRP 0.0000 IN.	
				ZMRP 200.0004 IN.	
				SCALE 0.0060	

MACH

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LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0



SIDE SLIP ANGLE, BETA, DEGREES

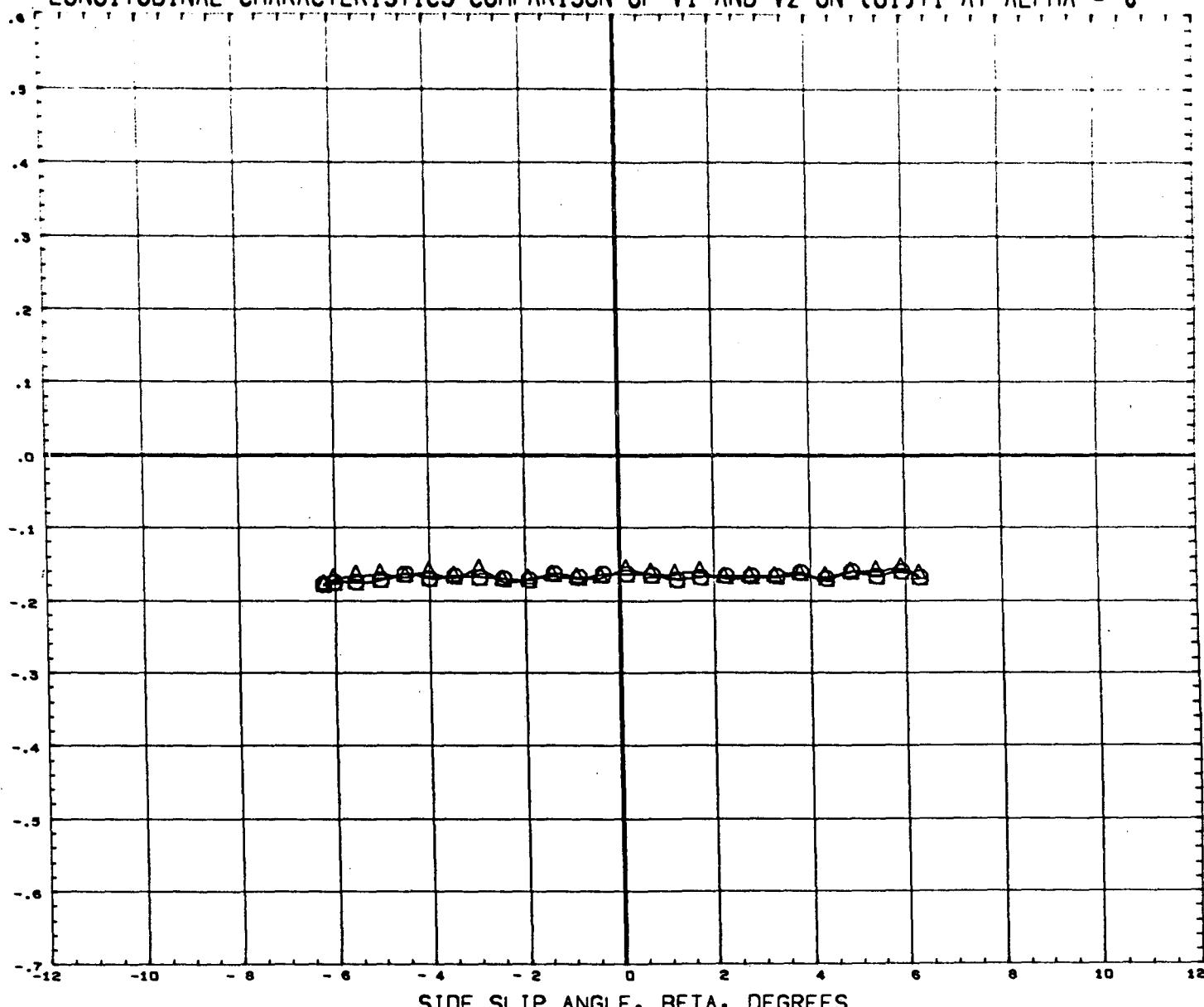
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(CD7442)	Q	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(DD7448)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH 1.10

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LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

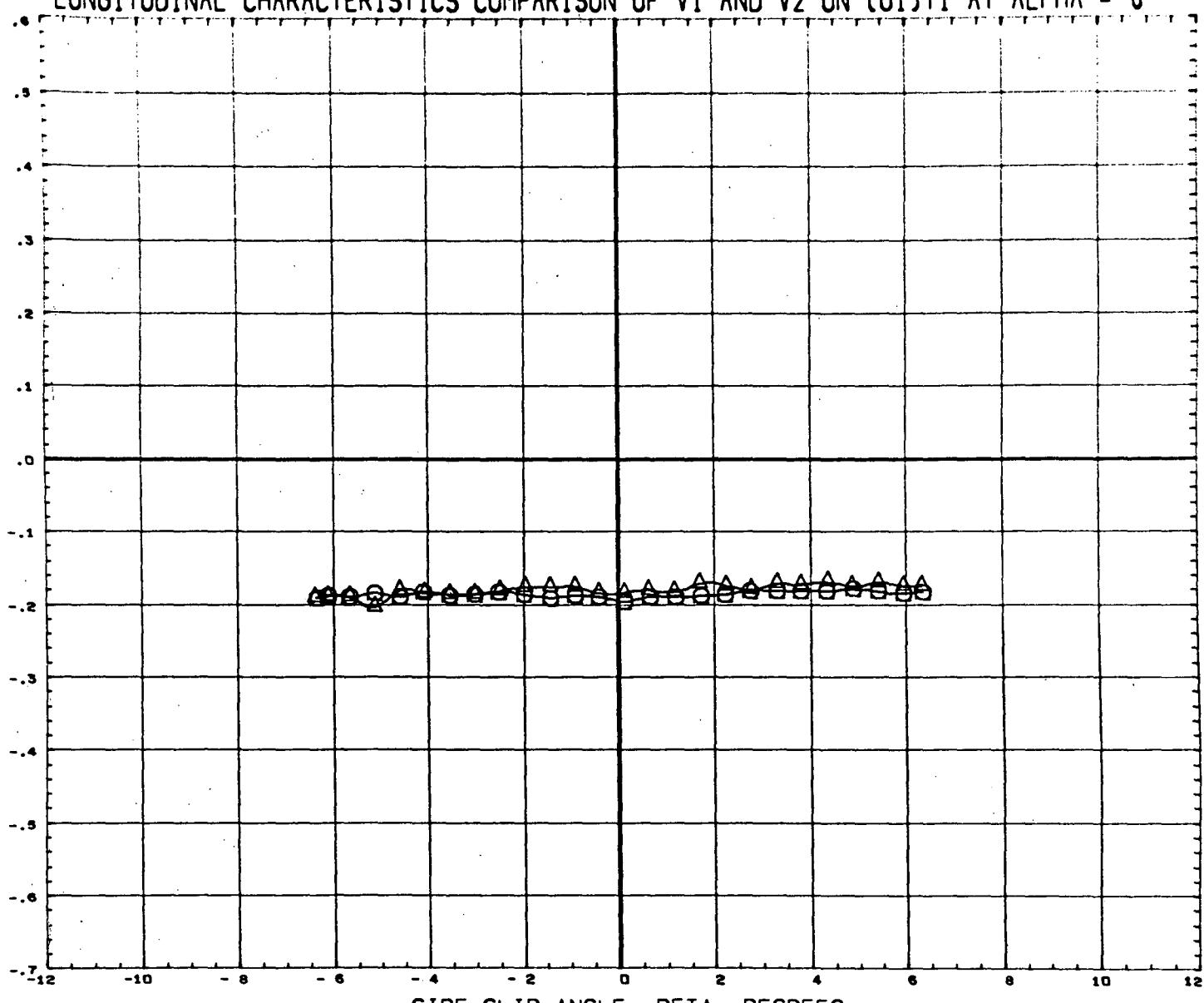
LIFT COEFFICIENT CL



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
(CD7442)	○	MDAC S-222 COMPOSITE (T-CG) (01V1) T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(OD7448)	△	MDAC S-222 COMPOSITE (T-CG) (01) T1	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

LIFT COEFFICIENT, CL



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7442)	MDAC S-222 COMPOSITE (T-CG) (01)V1 T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(DD7448)	MDAC S-222 COMPOSITE (T-CG) (01)T1	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

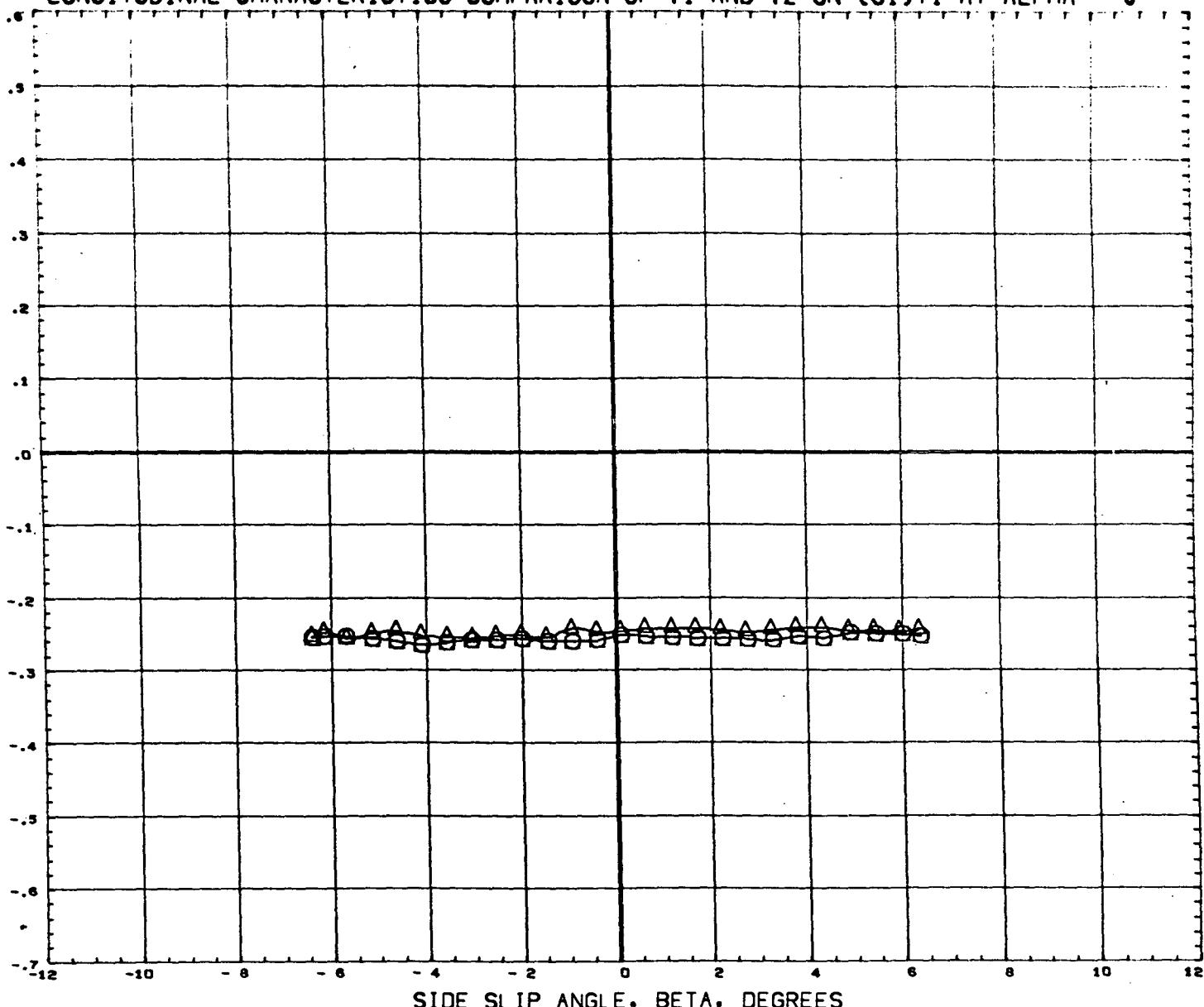
MACH

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LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

LIFT COEFFICIENT, CL



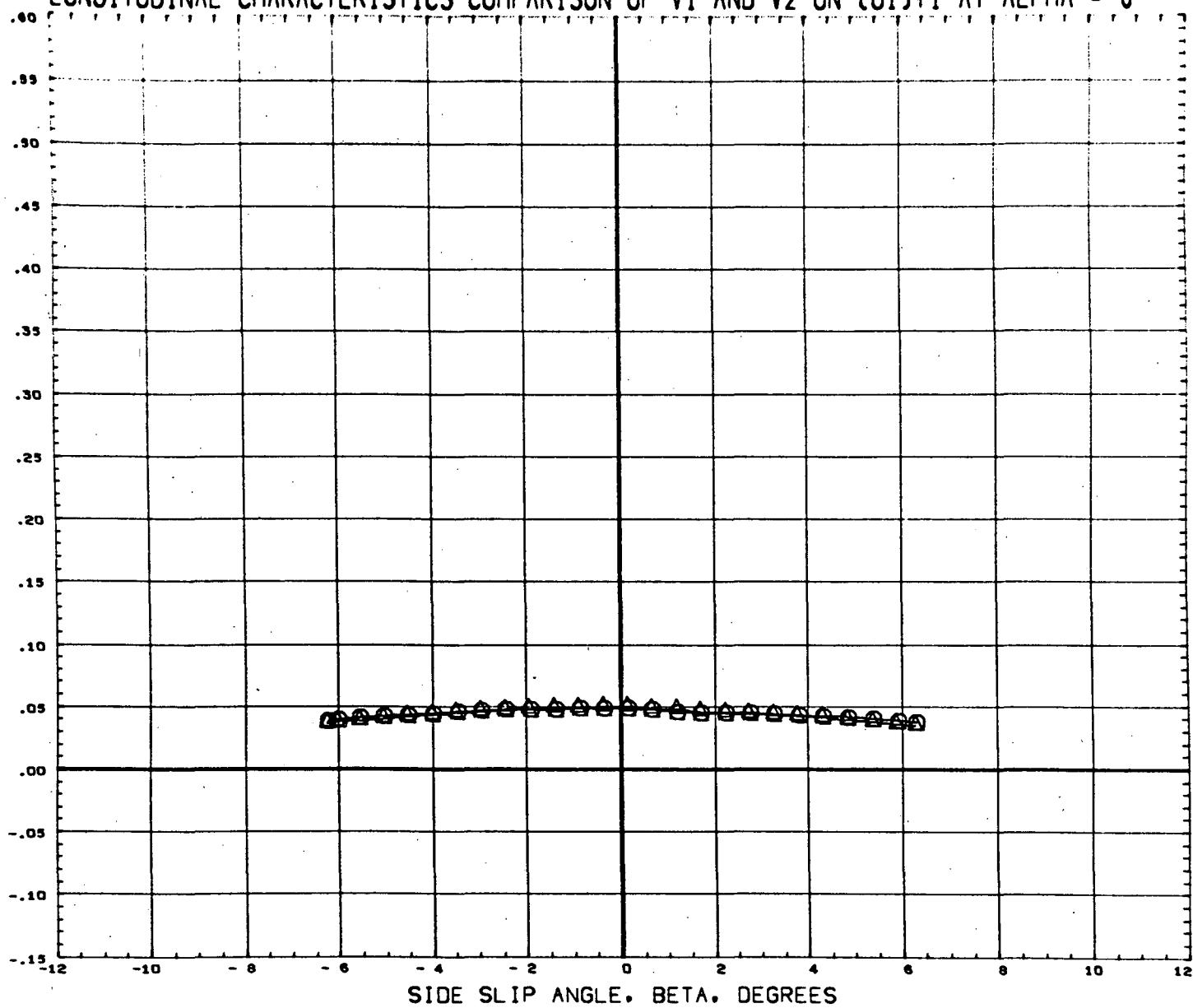
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION		
						SREF	3155.3040	SO.FT.
(CD7442)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	LREF	609.3004	IN.
(DD7448)	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	BREF	882.0004	IN.
						XMRP	557.0004	IN.
						YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

MACH 1.10

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LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0

FOREBODY DRAG COEFFICIENT, COF



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7442)	Q	MDAC S-222 COMPOSITE (T-CG) (01V1) T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7448)	Q	MDAC S-222 COMPOSITE (T-CG) (01) T1	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

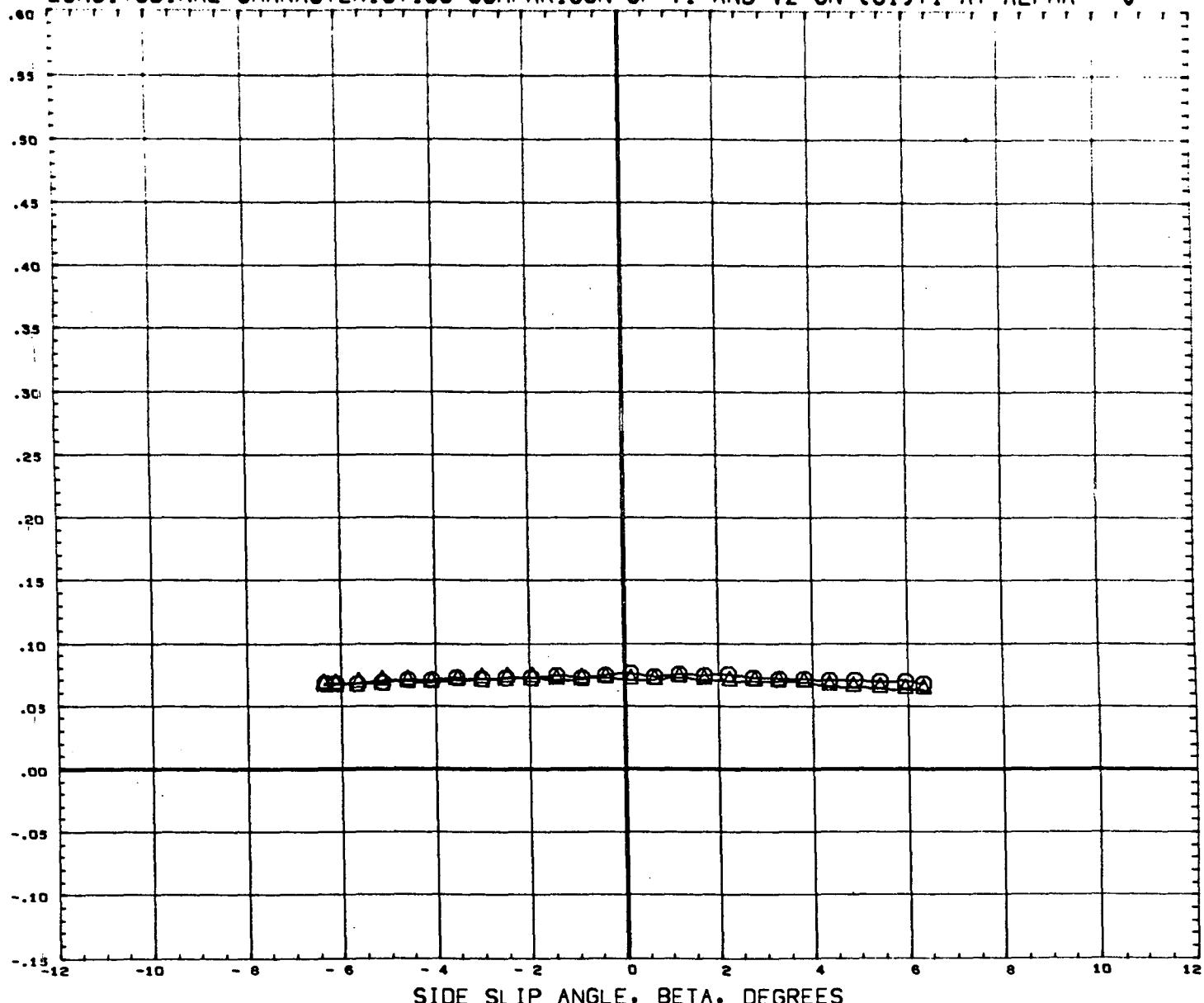
MACH

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FOREBODY DRAG COEFFICIENT. CDF

LONGITUDINAL CHARACTERISTICS COMPARISON OF V1 AND V2 ON (01)T1 AT ALPHA = 0



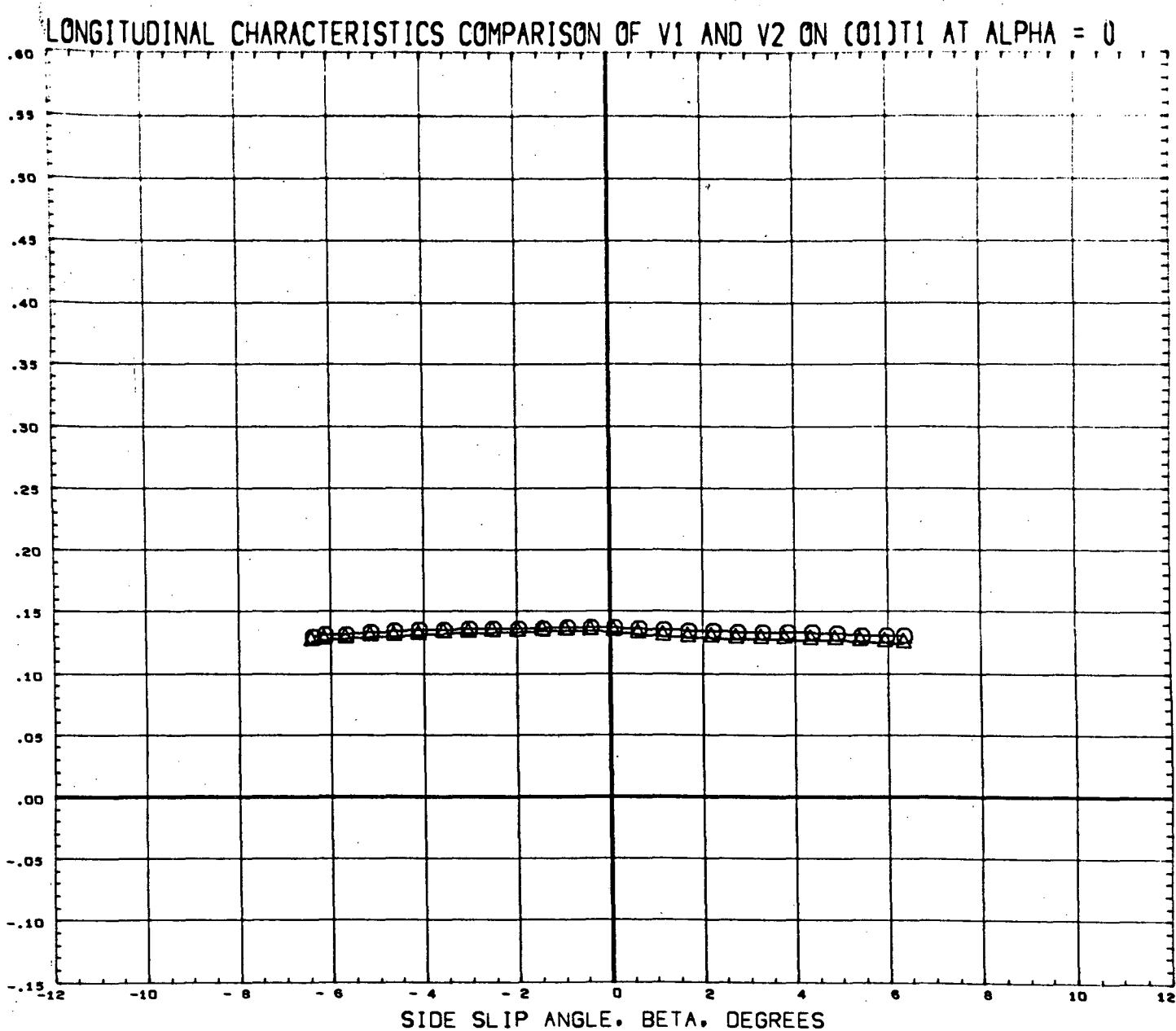
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
						SREF	3155.3040	SQ.FT.
(CD7442)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
(DD7448)	MDAC S-222 COMPOSITE(T-CG) (01)T1	0.000	0.000	0.000	0.000	BREF	862.0004	IN.
						XMRP	557.0004	IN.
						YMRP	0.0000	IN.
						ZMRP	200.0004	IN.
						SCALE	0.0060	

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FOREBODY DRAG COEFFICIENT. CDF



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7442) MDAC S-222 COMPOSITE(T-CG) (01V1)T1
 (DD7448) MDAC S-222 COMPOSITE(T-CG) (01)T1

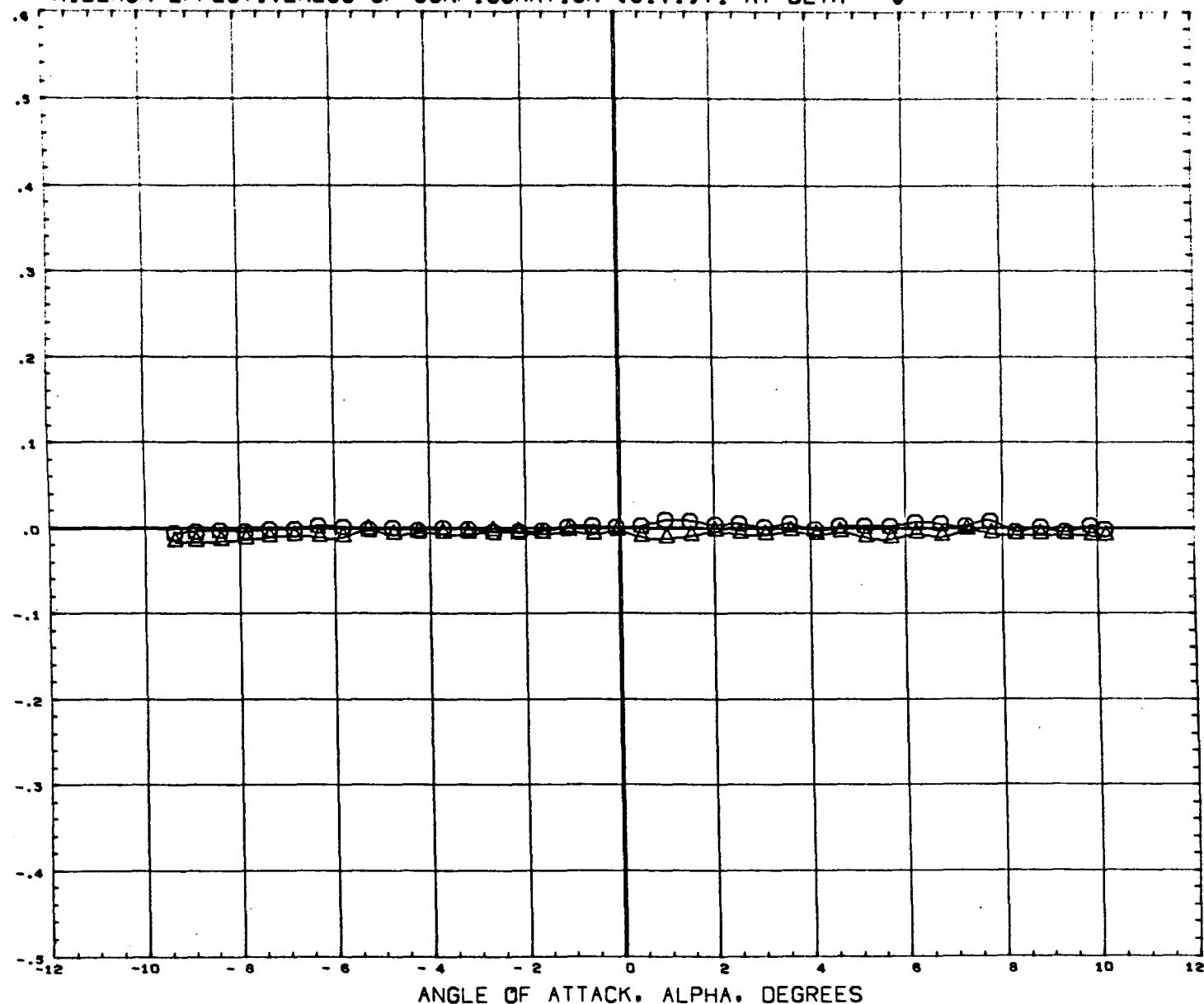
	ALPHA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(0.000)	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(0.000)	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 882.0004 IN.
					XMRP 557.0004 IN.
					YMRP 0.0000 IN.
					ZMRP 200.0004 IN.
					SCALE 0.0060

MACH 1.10

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AILERON EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT BETA = 0

LATERAL FORCE COEFFICIENT, CY

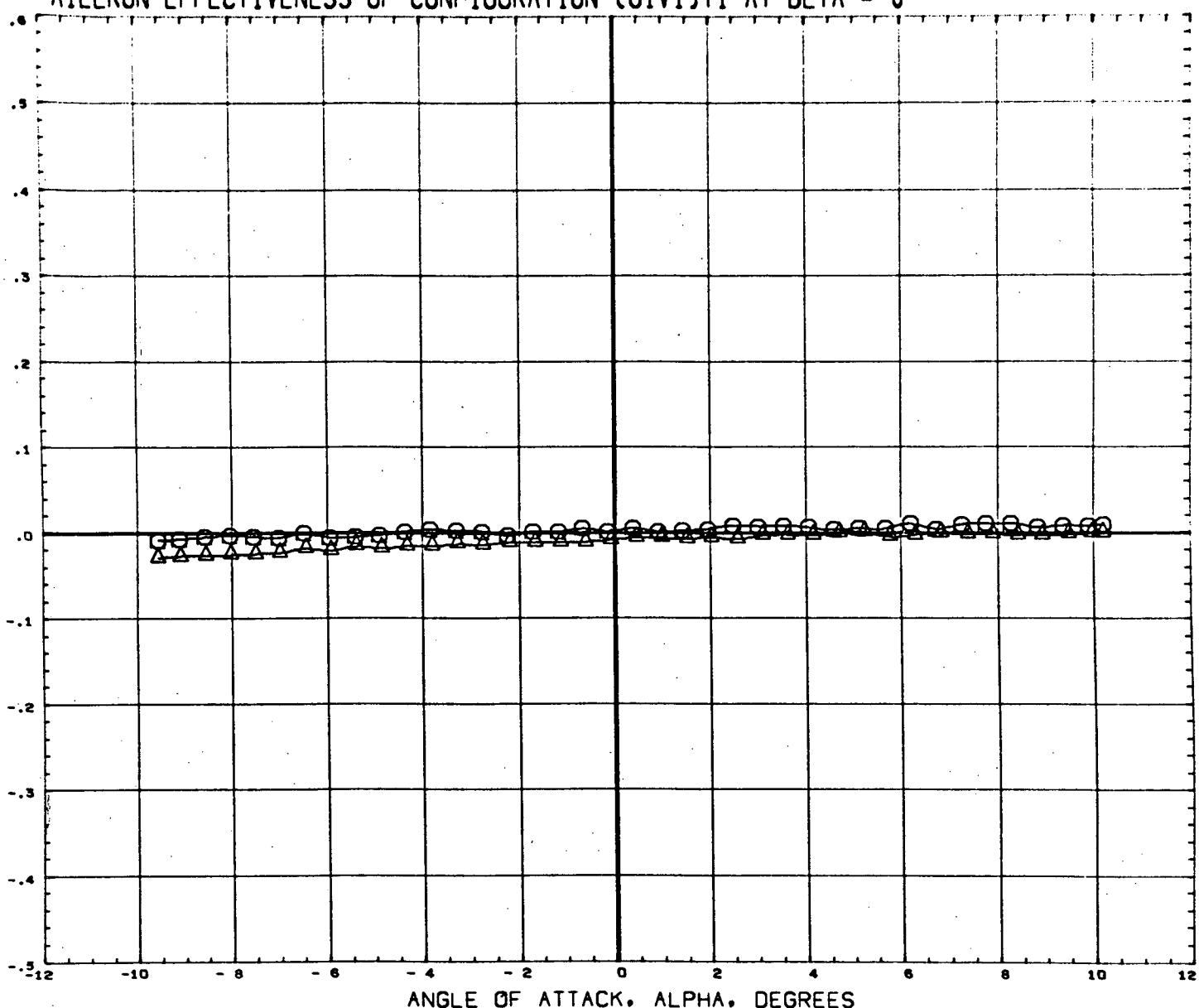


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7441)	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7443)	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

AILERON EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0

LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD7441)	Q	MDAC S-222 COMPOSITE(T-CG) (01V1) T1	0.000	0.000	0.000	0.000	SREF	3155.3040 : SQ.FT.
(RD7443)	Q	MDAC S-222 COMPOSITE(T-CG) (01V1) T1	0.000	0.000	20.000	0.000	LREF	609.5004 IN.

MACH

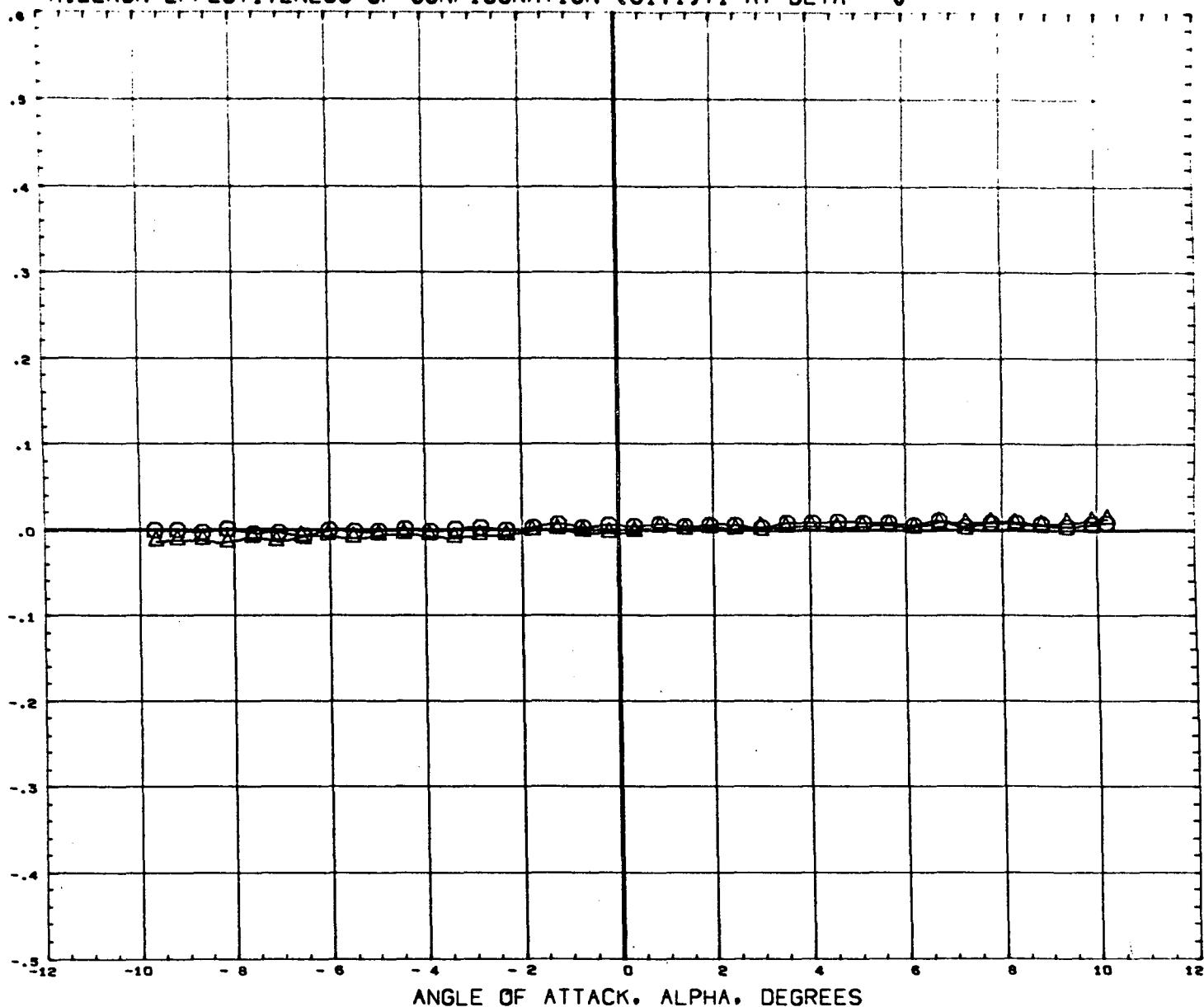
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AILERON EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0

LATERAL FORCE COEFFICIENT, CY



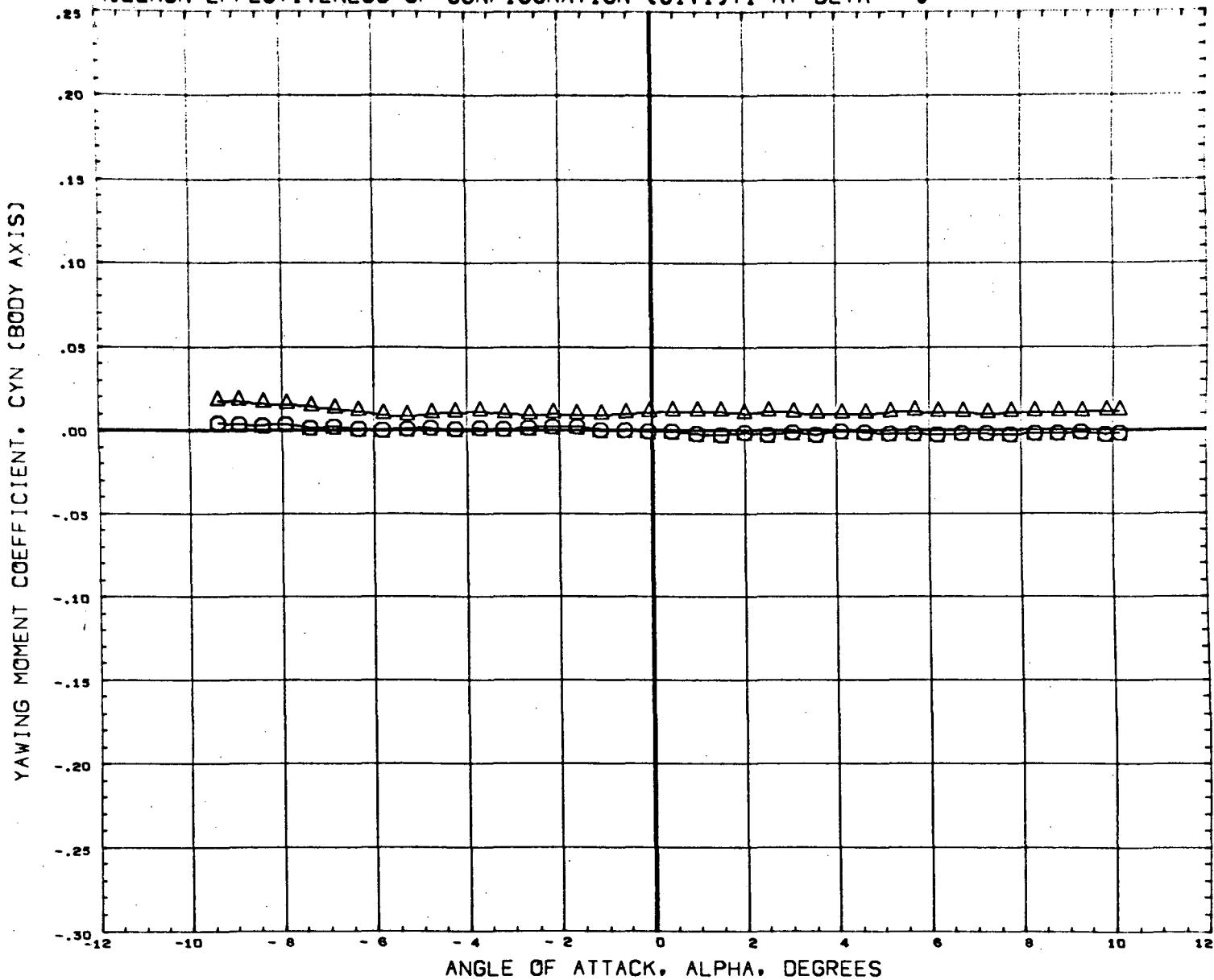
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD7441)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 50.FT.
(RD7443)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	20.000	0.000	LREF	609.5004 IN.

MACH

1.10

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AILERON EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
(FD7441)	Q	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1		0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(FD7443)	Q	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1		0.000	0.000	20.000	0.000	LREF	609.5004 IN.
								BREF	882.0004 IN.
								XMRP	557.0004 IN.
								YMRP	0.0000 IN.
								ZMRP	200.0004 IN.
								SCALE	0.0060

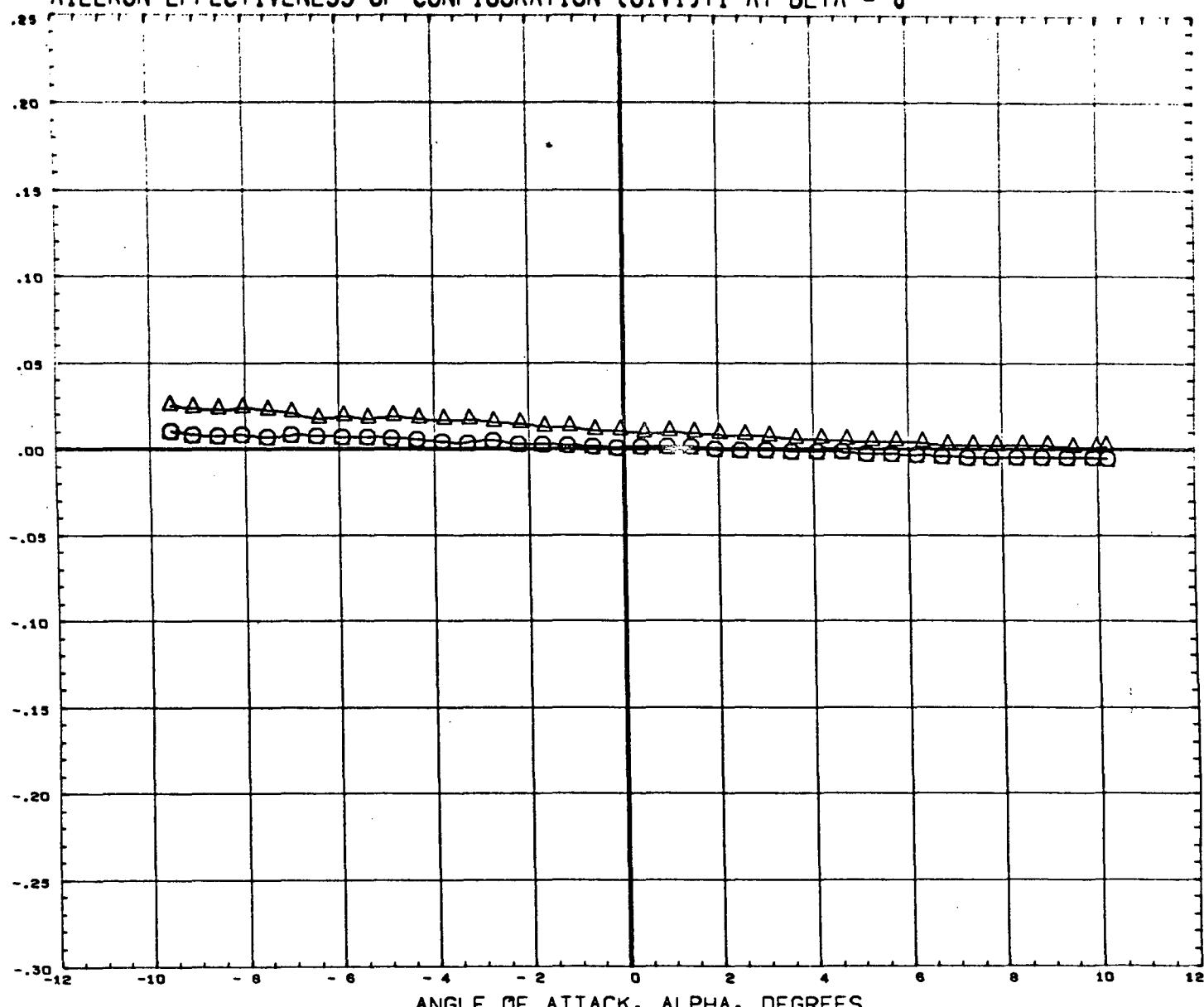
MACH

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AILERON EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

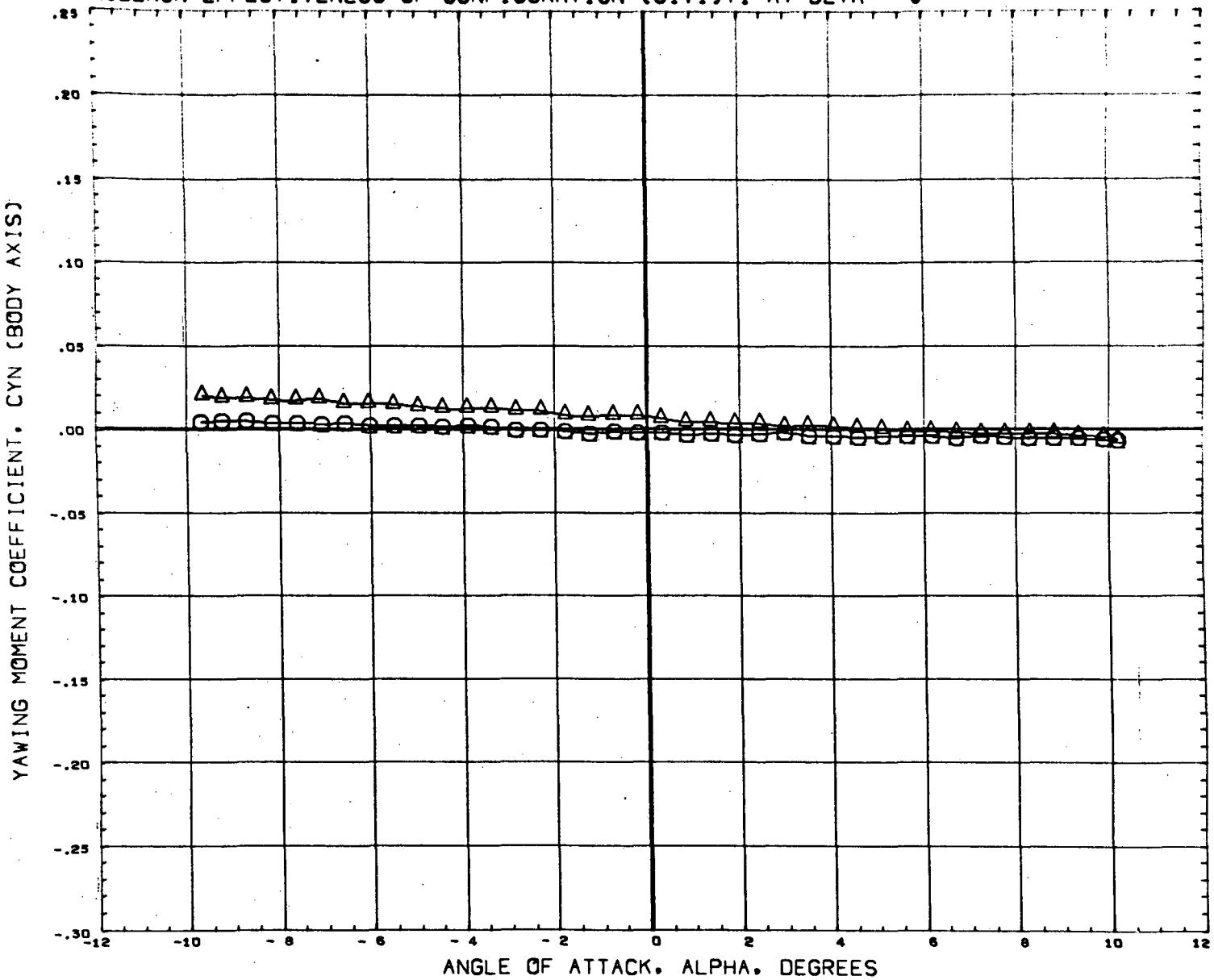


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD7441)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7443)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	20.000	0.000	LREF	609.5004 IN.

MACH .90

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AILERON EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0



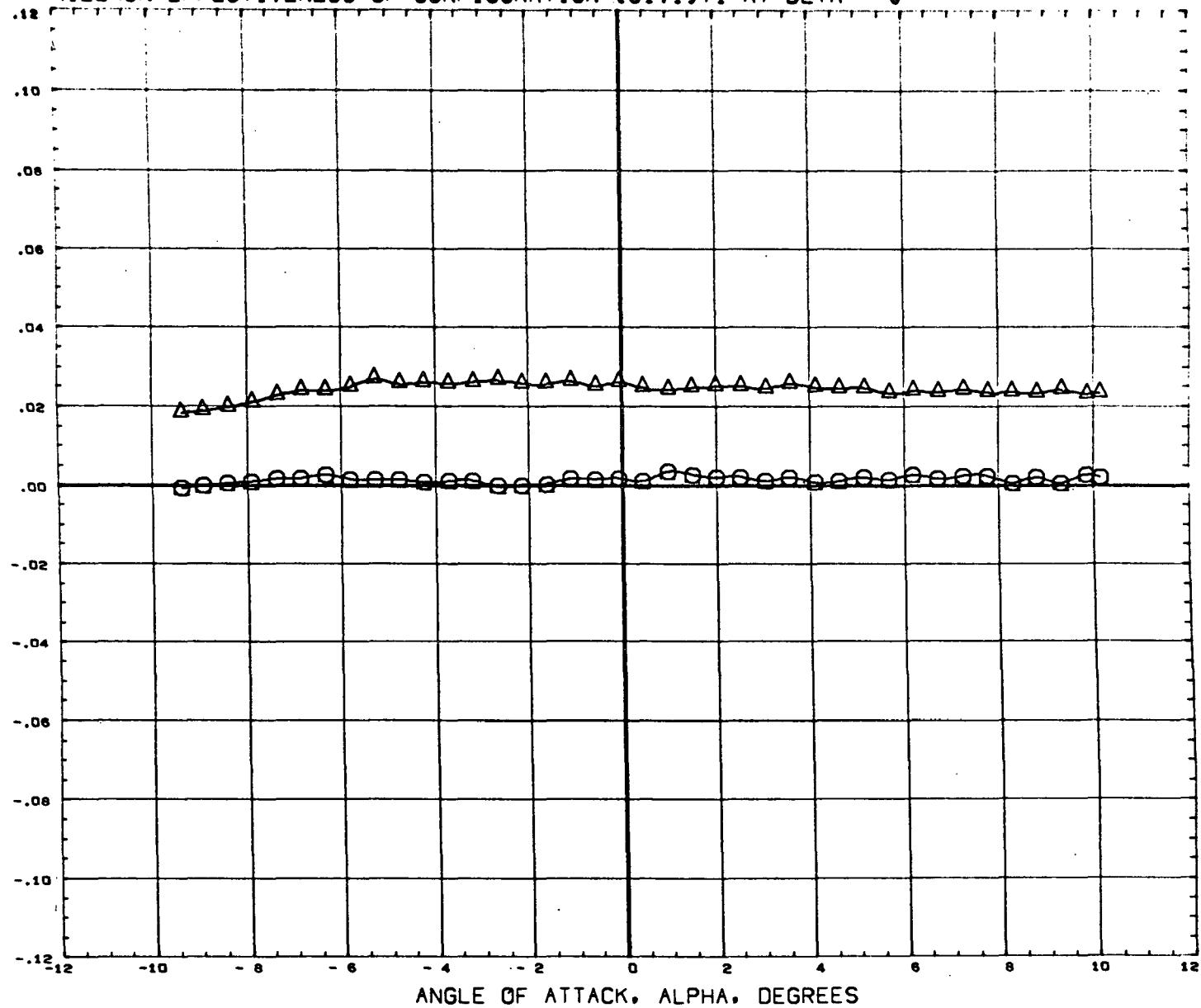
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(RD7441) Q	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7443) Q	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.10

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AILERON EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRÓN	RUDDER	REFERENCE INFORMATION
(RD7441)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7443)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

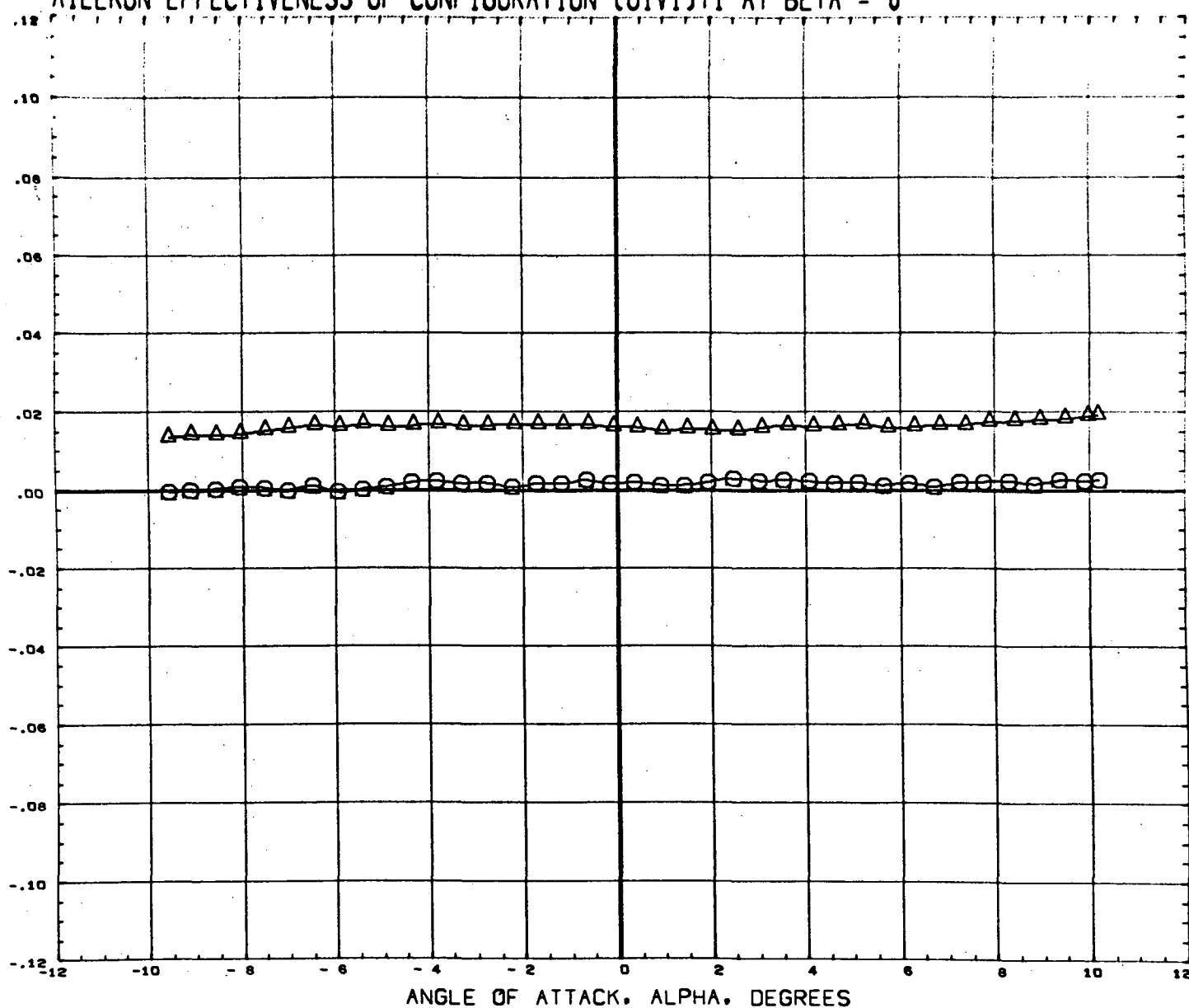
MACH

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AILERON EFFECTIVENESS OF CONFIGURATION (OIV1)T1 AT BETA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

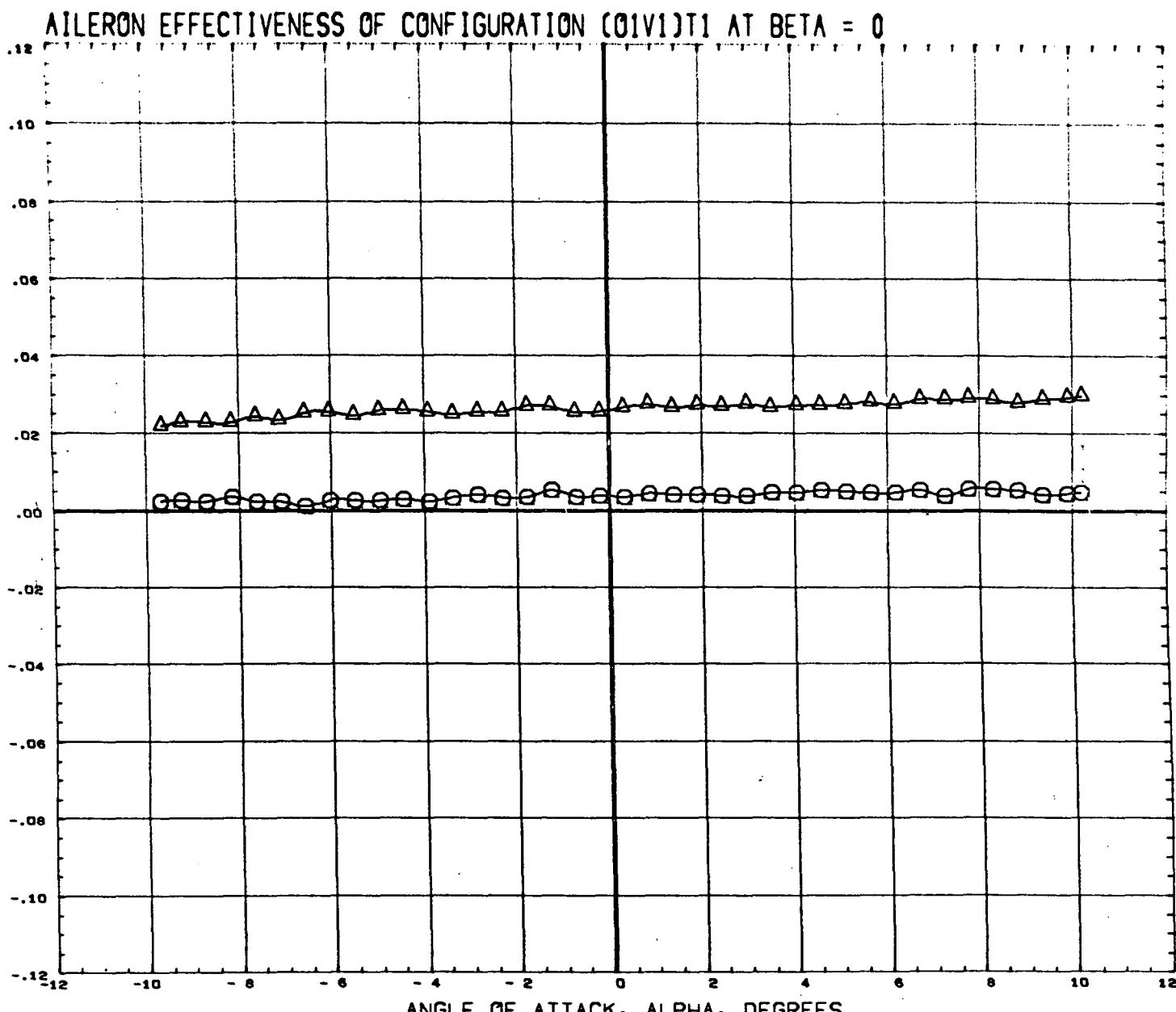
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDER	REFERENCE INFORMATION
(RD7441)	MDAC S-222 COMPOSITE(T-CG) (OIV1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7443)	MDAC S-222 COMPOSITE(T-CG) (OIV1)T1	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

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ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



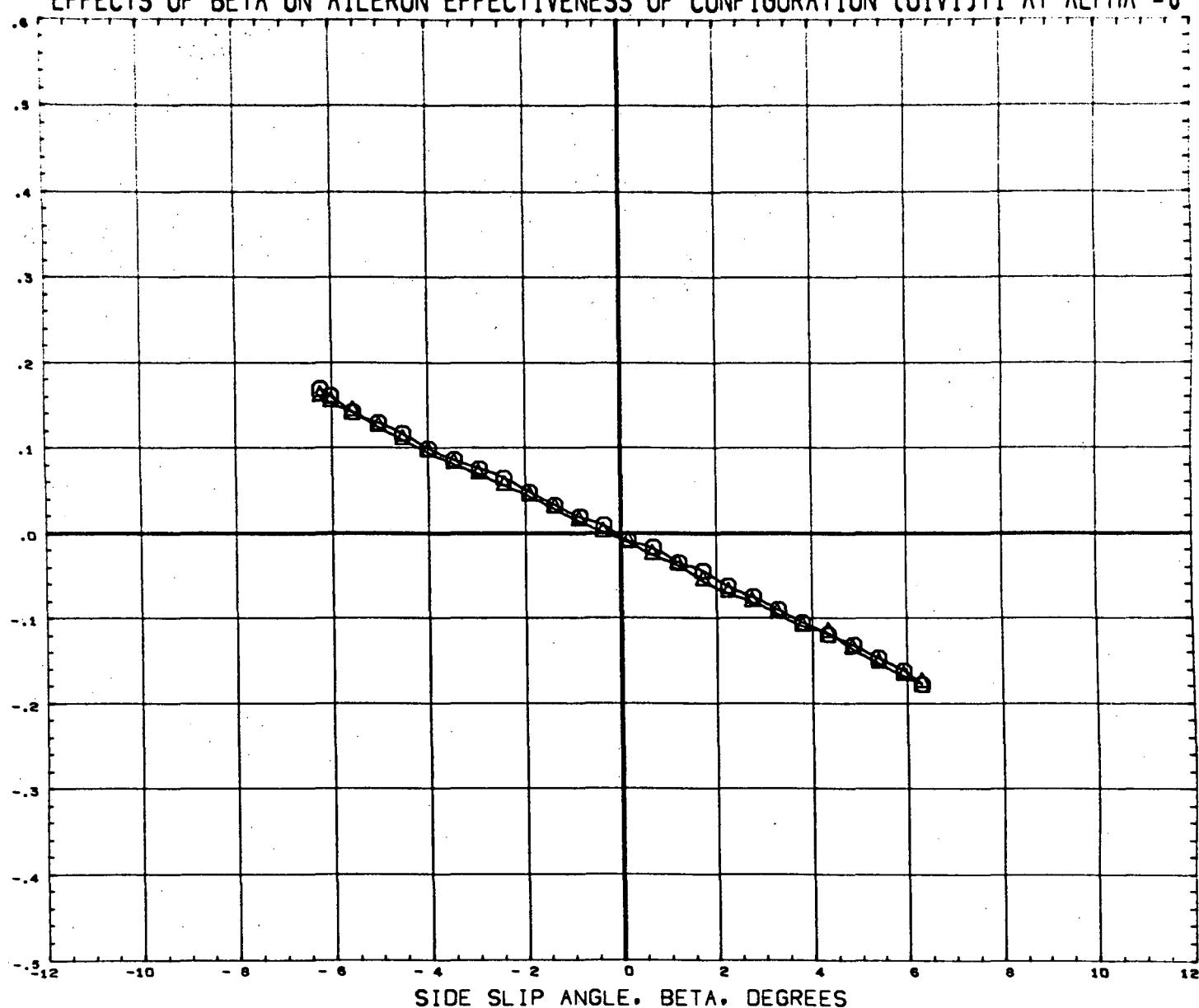
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDGER	REFERENCE INFORMATION		
(RD7441)	○	MDAC S-222 COMPOSITE (T-CG) (O1V1) T1	0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(RD7443)	△	MDAC S-222 COMPOSITE (T-CG) (O1V1) T1	0.000	0.000	20.000	0.000	LREF	609.3004	IN.

MACH 1.10

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EFFECTS OF BETA ON AILERON EFFECTIVENESS OF CONFIGURATION (OIV1)T1 AT ALPHA = 0

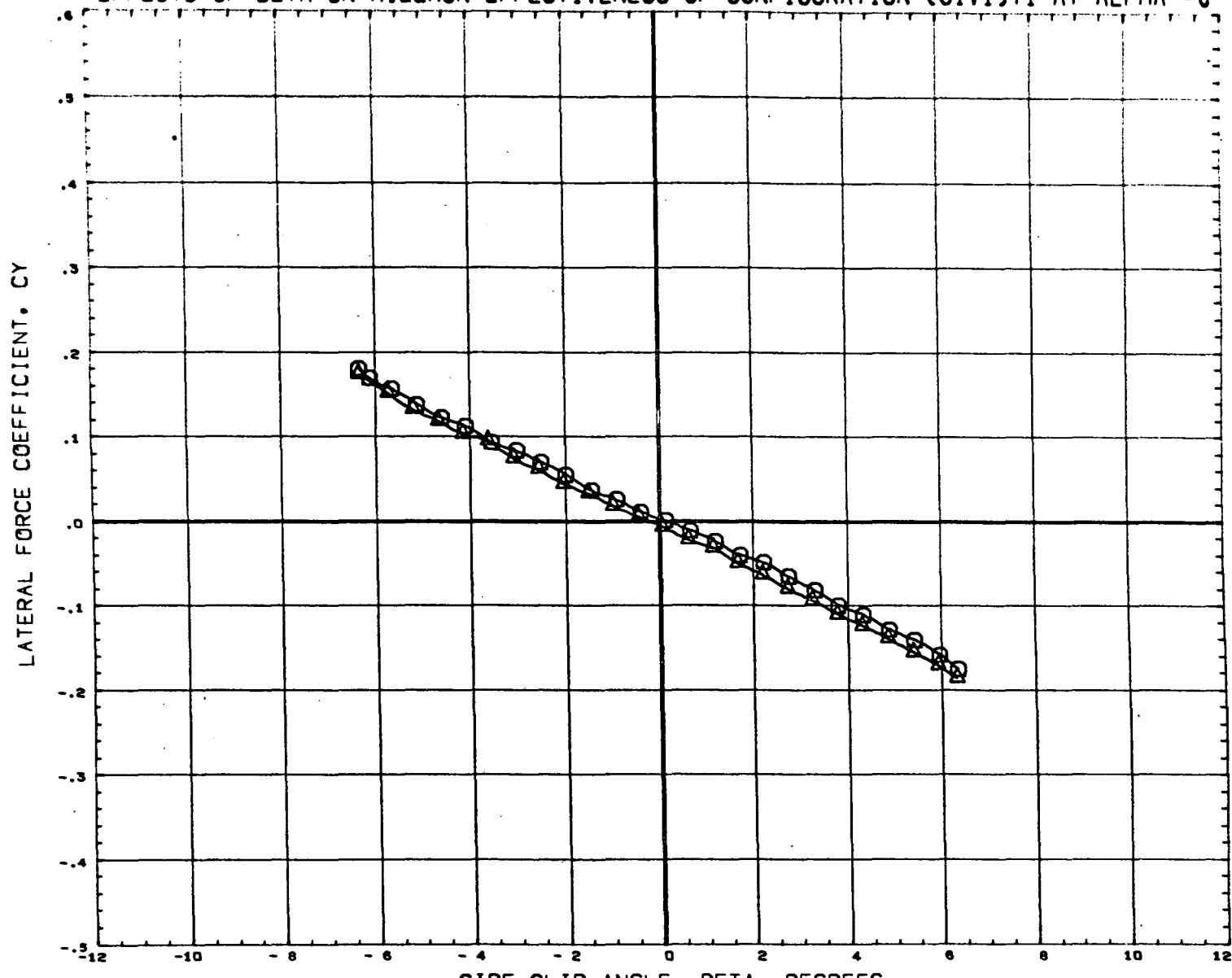
LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) MDAC S-222 COMPOSITE(T-CG) (OIV1)T1
 (RD7444) MDAC S-222 COMPOSITE(T-CG) (OIV1)T1

ALPHA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	20.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

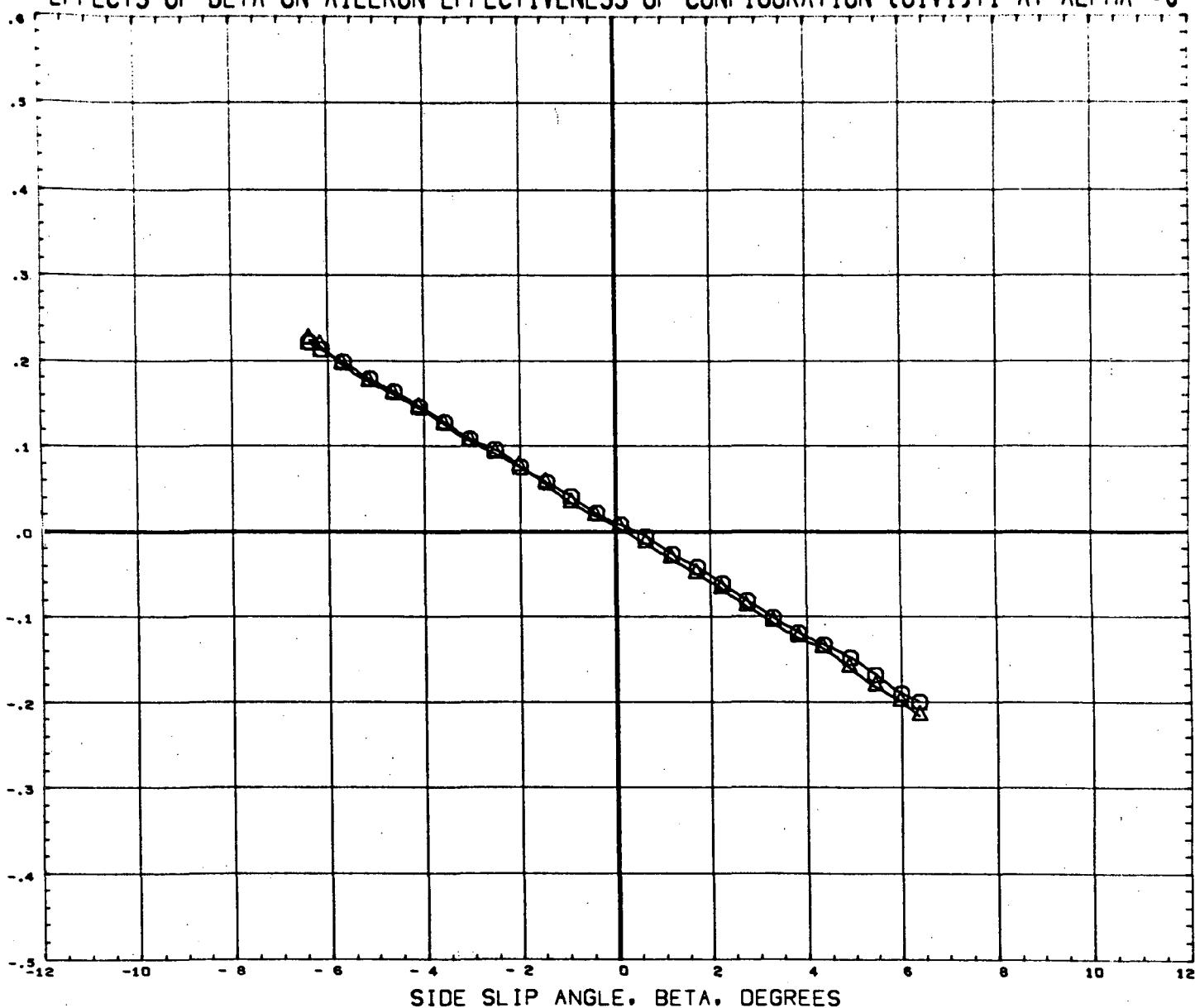
EFFECTS OF BETA ON AILERON EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDER	REFERENCE	INFORMATION
(RD7442)	○	MDAC S-222 COMPOSITE(T-CG) (O1V1) T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7444)	△	MDAC S-222 COMPOSITE(T-CG) (O1V1) T1	0.000	0.000	20.000	0.000	LREF	609.5004 IN.
							BREF	882.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

EFFECTS OF BETA ON AILERON EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0

LATERAL FORCE COEFFICIENT, CY

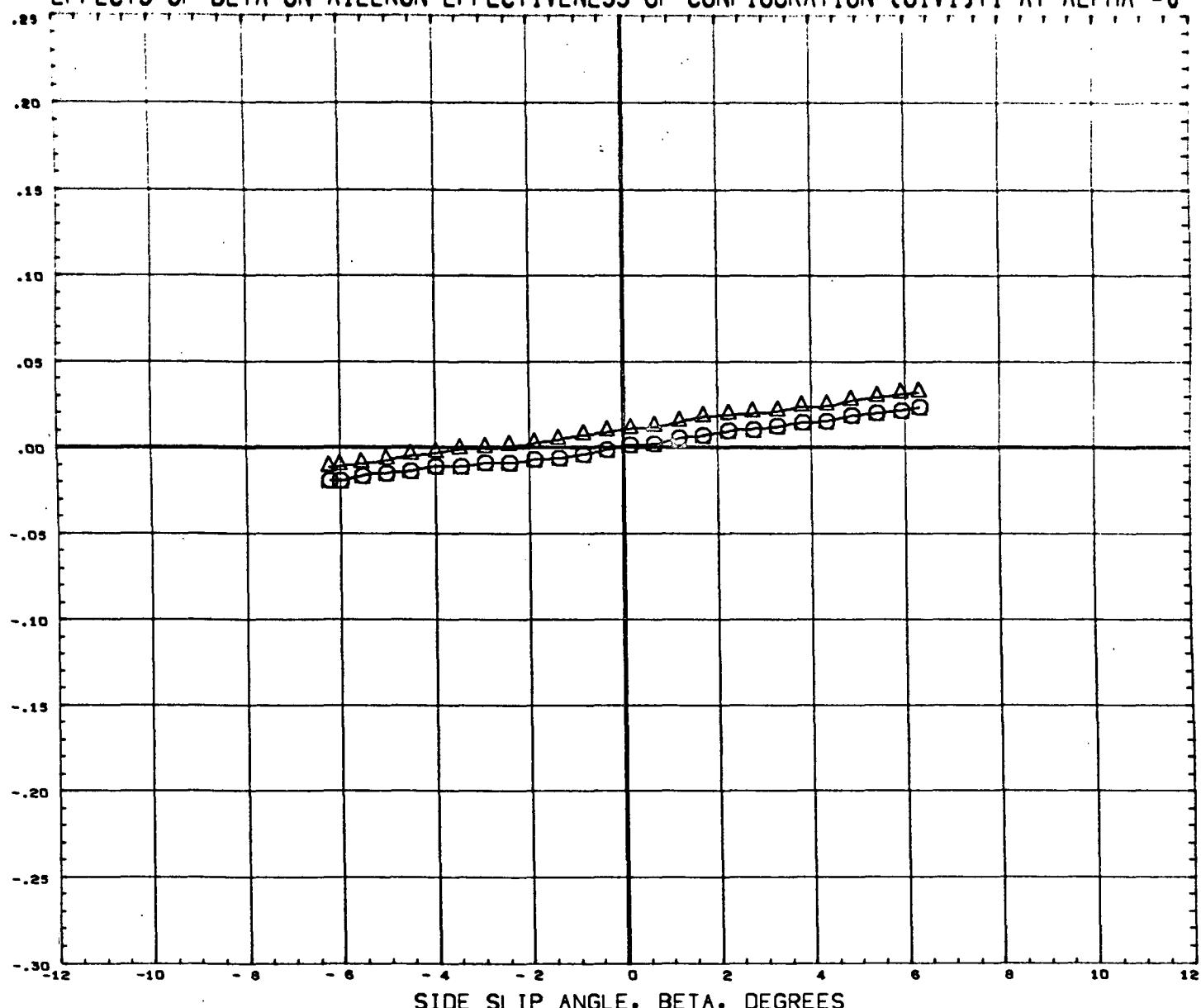


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) Q MDAC S-222 COMPOSITE(T-CG) (O1V1)T1
 (RD7444) Q MDAC S-222 COMPOSITE(T-CG) (O1V1)T1

ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	20.000	0.000	LREF 669.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA ON AILERON EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT ALPHA = 0

YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD7442)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7444)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	20.000	0.000	LREF	609.5004 IN.

BREF 882.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

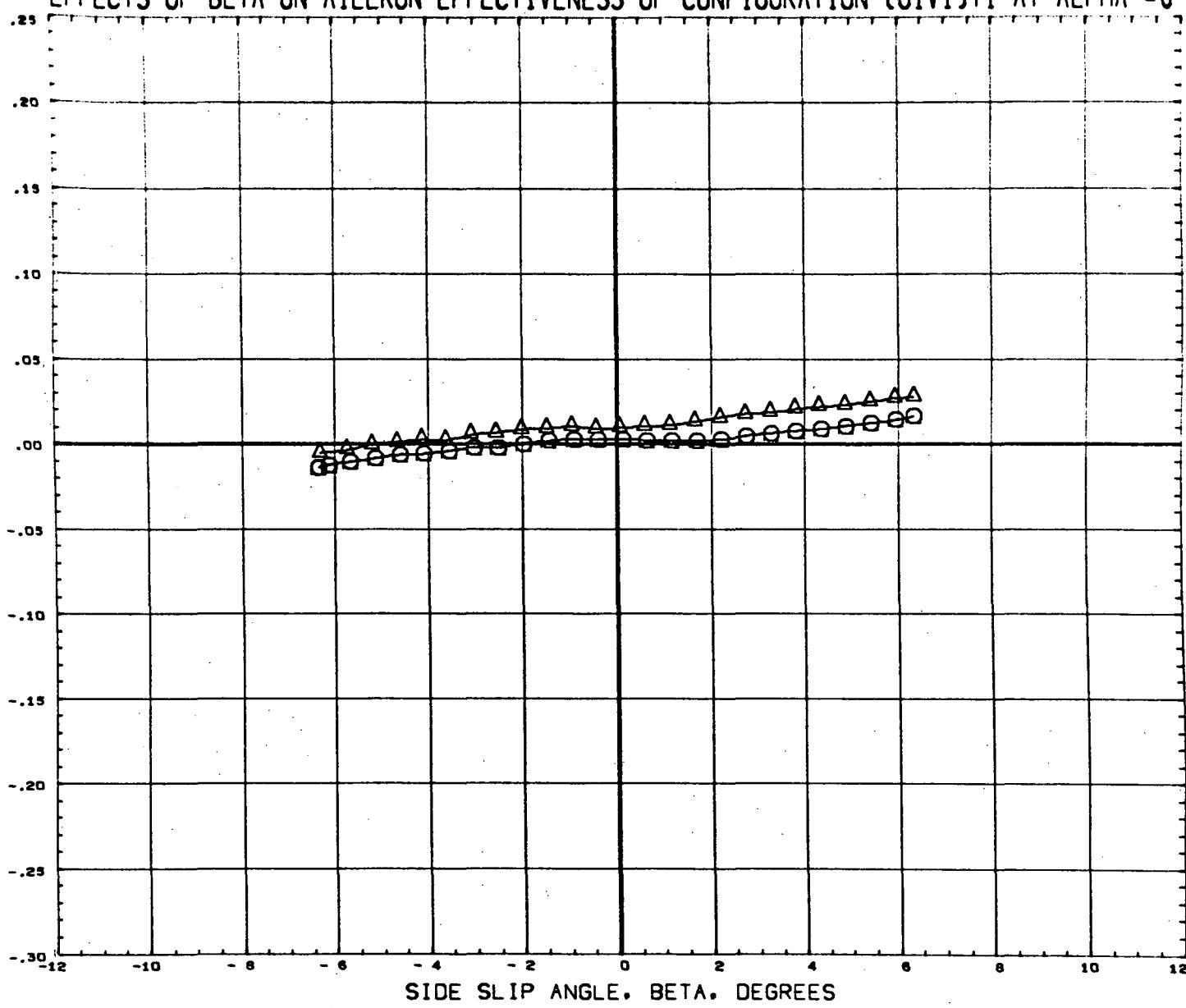
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EFFECTS OF BETA ON AILERON EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT ALPHA = 0

YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7442)	MDAC S-222 COMPOSITE(T-CG) (01V1) T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7444)	MDAC S-222 COMPOSITE(T-CG) (01V1) T1	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 337.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

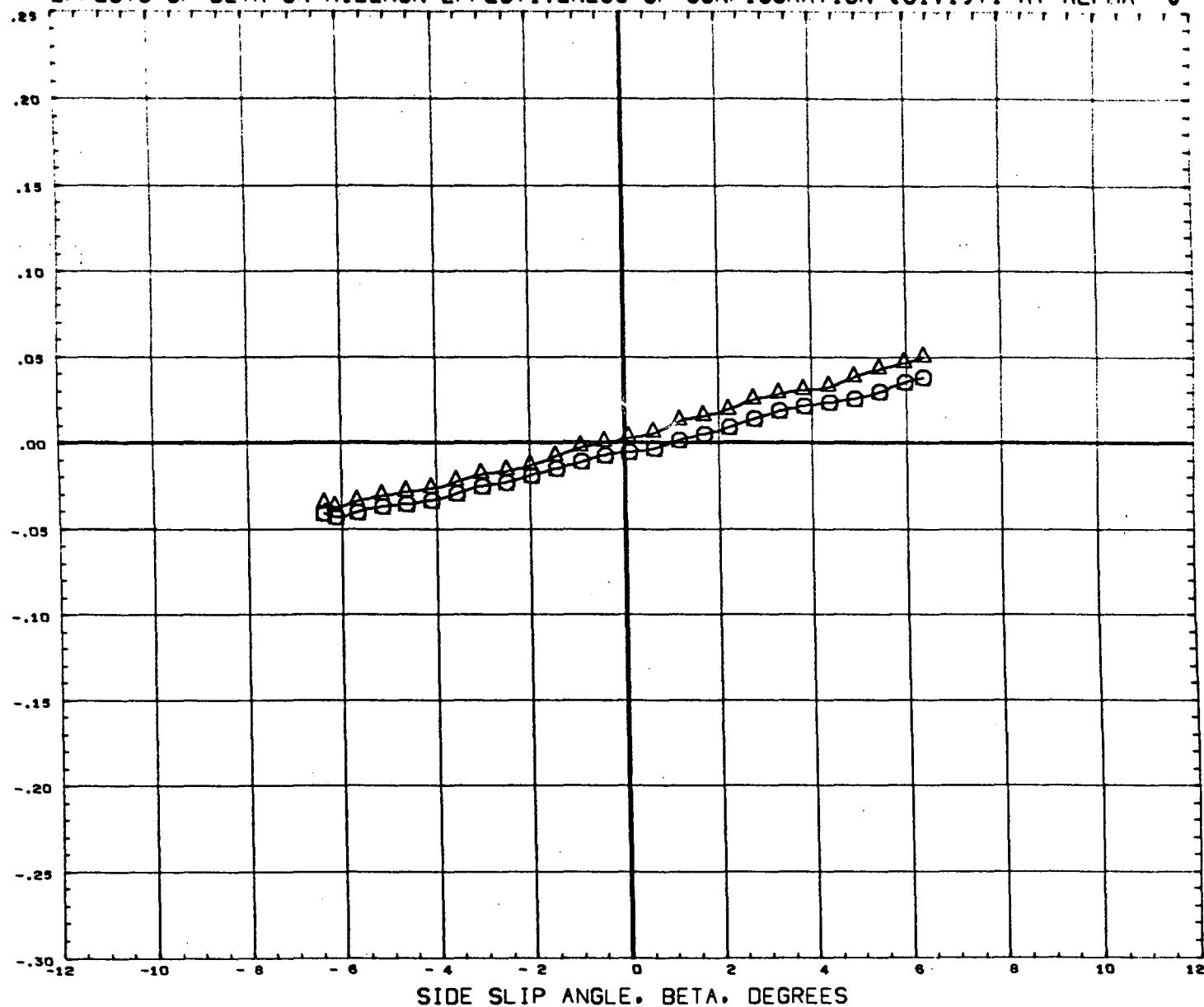
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EFFECTS OF BETA ON AILERON EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



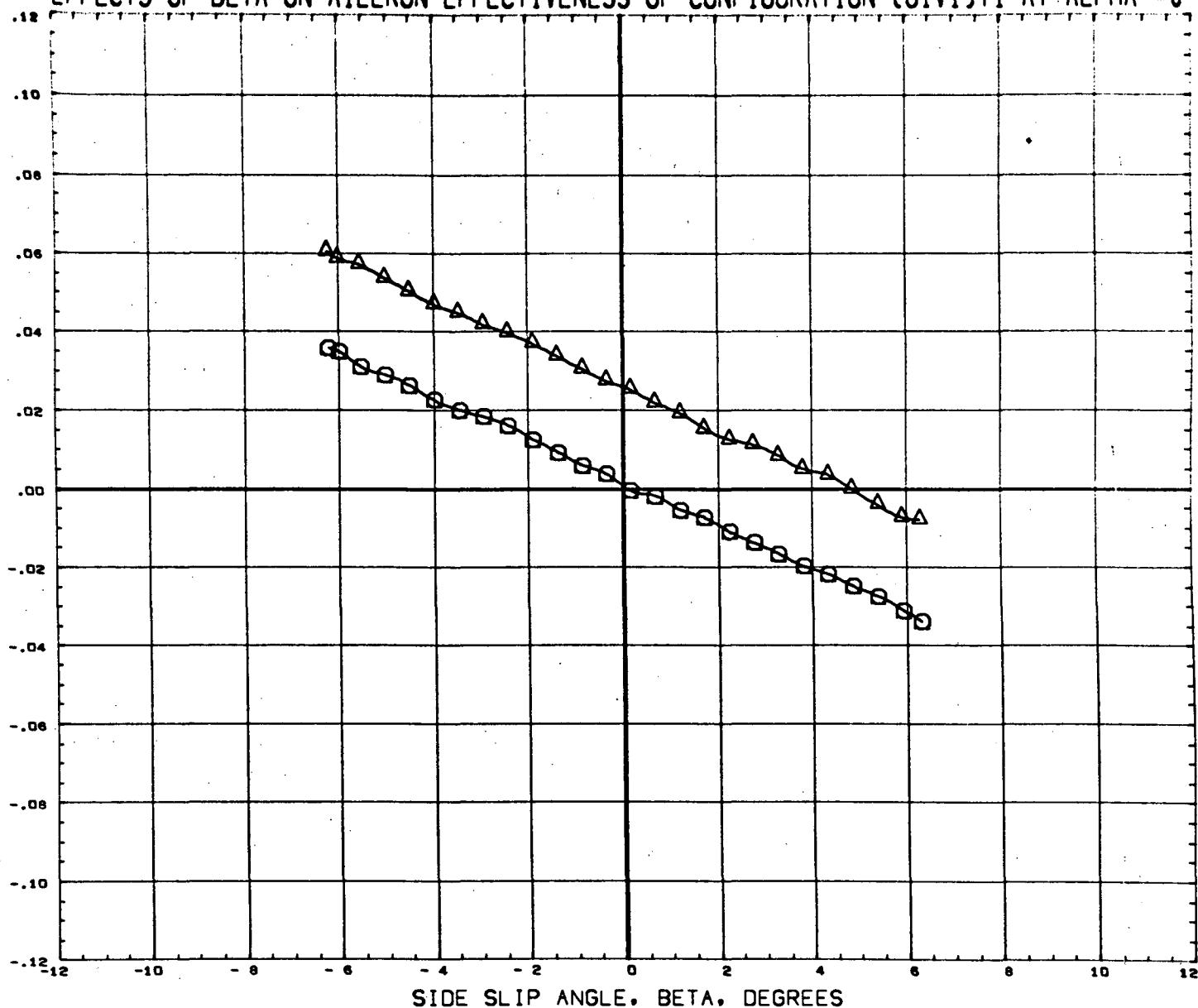
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD74421)	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7444)	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1	0.000	0.000	20.000	0.000	LREF 609.5004 IN. BREF 862.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.10

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EFFECTS OF BETA ON AILERON EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) Q MDAC S-222 COMPOSITE(T-CG) (O1V1)T1
 (RD7444) Q MDAC S-222 COMPOSITE(T-CG) (O1V1)T1

ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	20.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

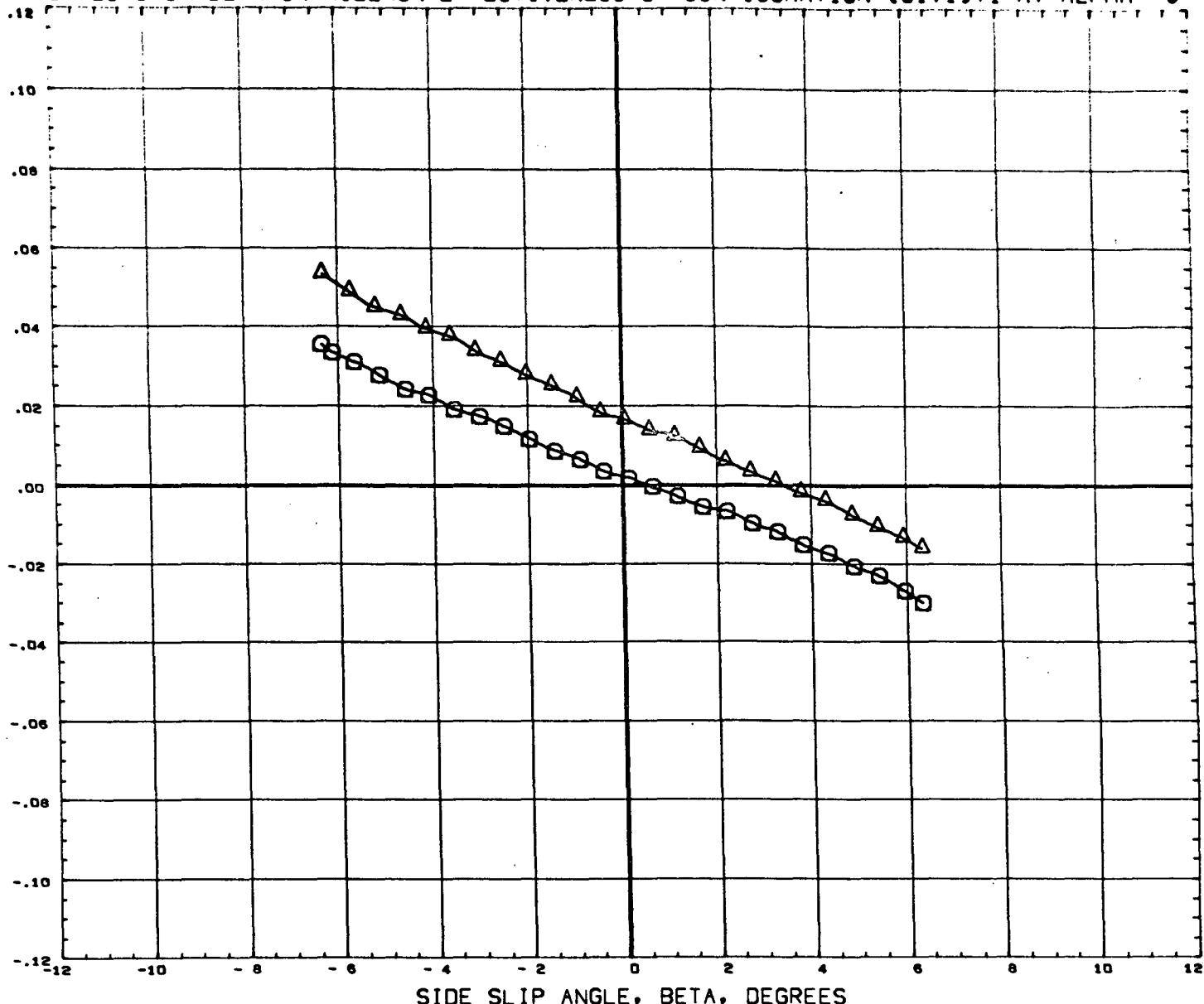
MACH

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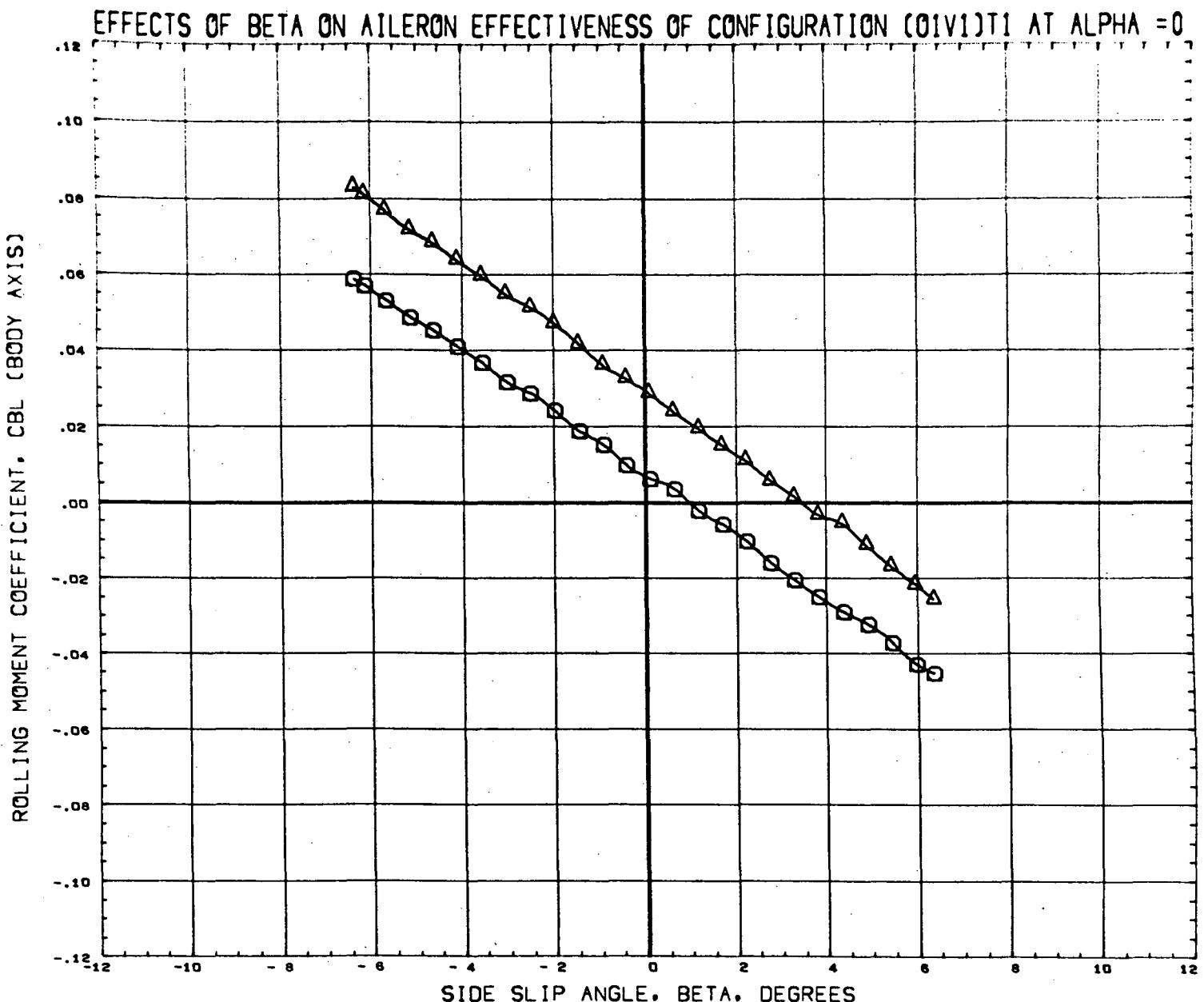
PAGE 367

EFFECTS OF BETA ON AILERON EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



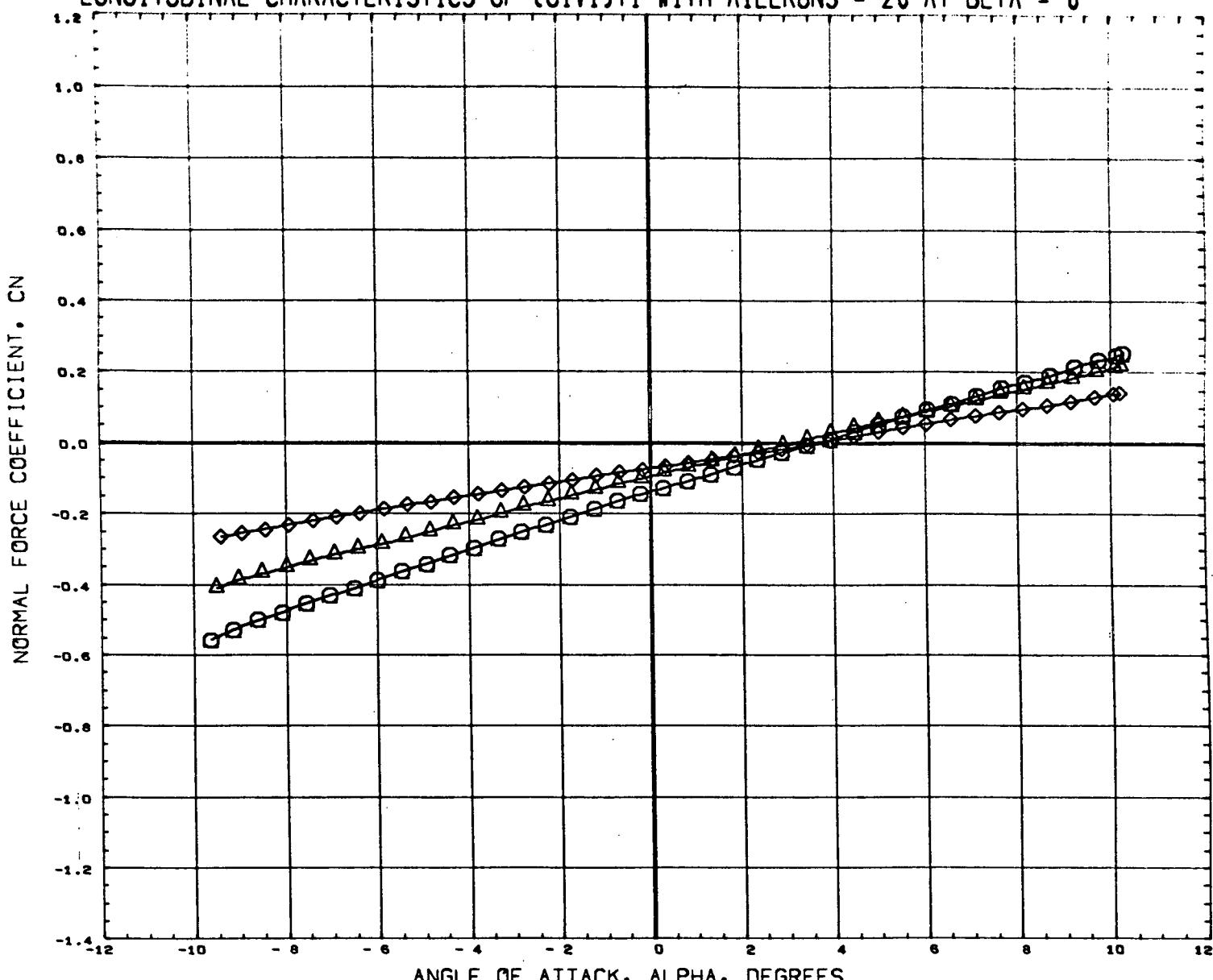
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	LREF
(RD7442)	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	3155.3040	609.5004
(RD7444)	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1	0.000	0.000	20.000	0.000	882.0004	557.0004



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) Q MDAC S-222 COMPOSITE(T-CG) (O1V1)T1
 (RD7444) Q MDAC S-222 COMPOSITE(T-CG) (O1V1)T1

ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 IN.FT.
0.000	0.000	20.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES		
	1.507	BETA	0.000	AILRON 20.000
	2.203	ELEVTR	0.000	RUDDER 0.000
	4.469			

DATA HIST. CODE TV

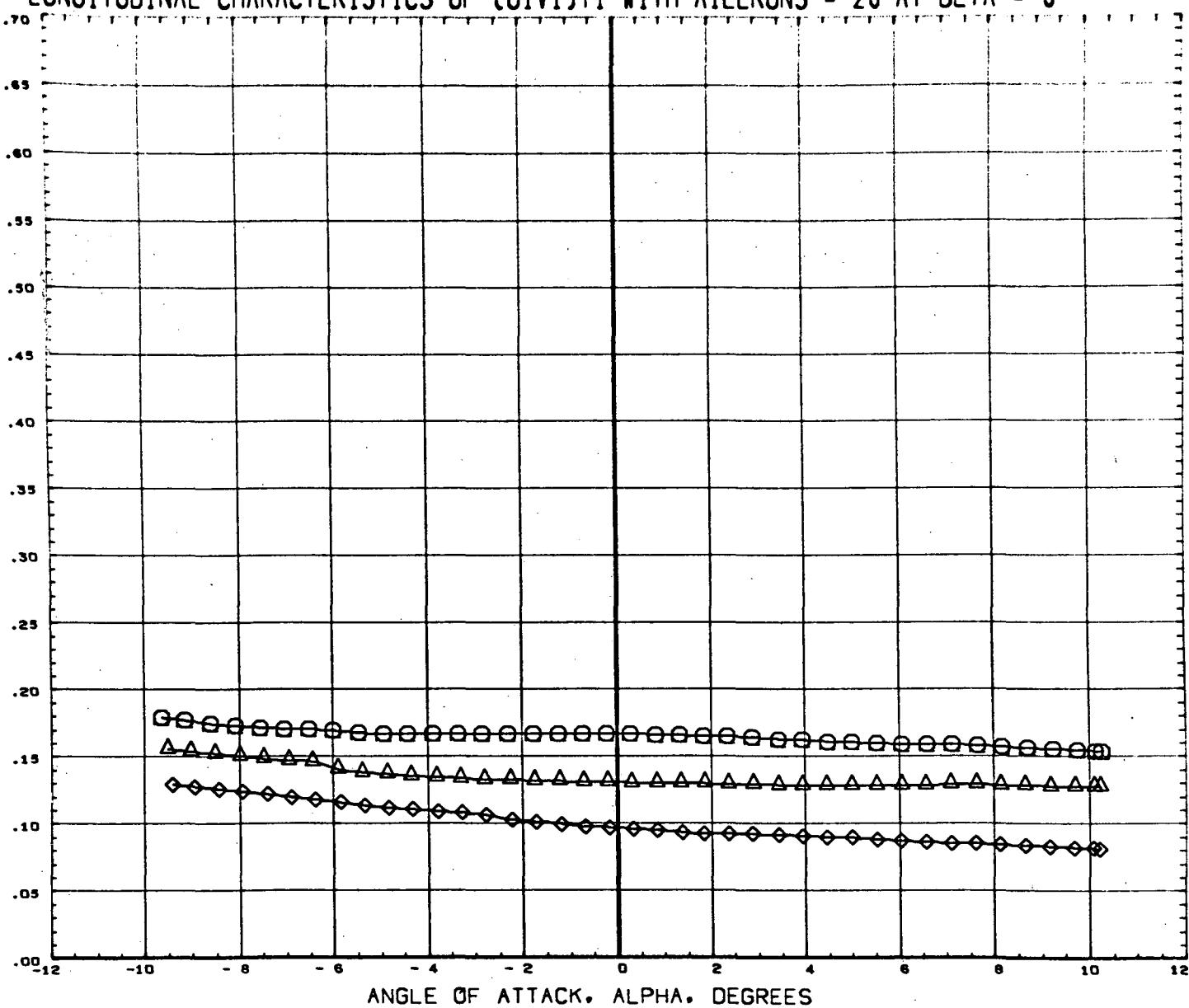
MDAC S-222 COMPOSITE(T-CG) (01V1)T1

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

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LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0

AXIAL FORCE COEFFICIENT, CA



SYMBOL MACH PARAMETRIC VALUES
 ⚡ 1.507 BETA 0.000 AILERON 20.000
 ⚡ 2.203 ELEVTR 0.000 RUDDER 0.000
 ⚡ 4.469

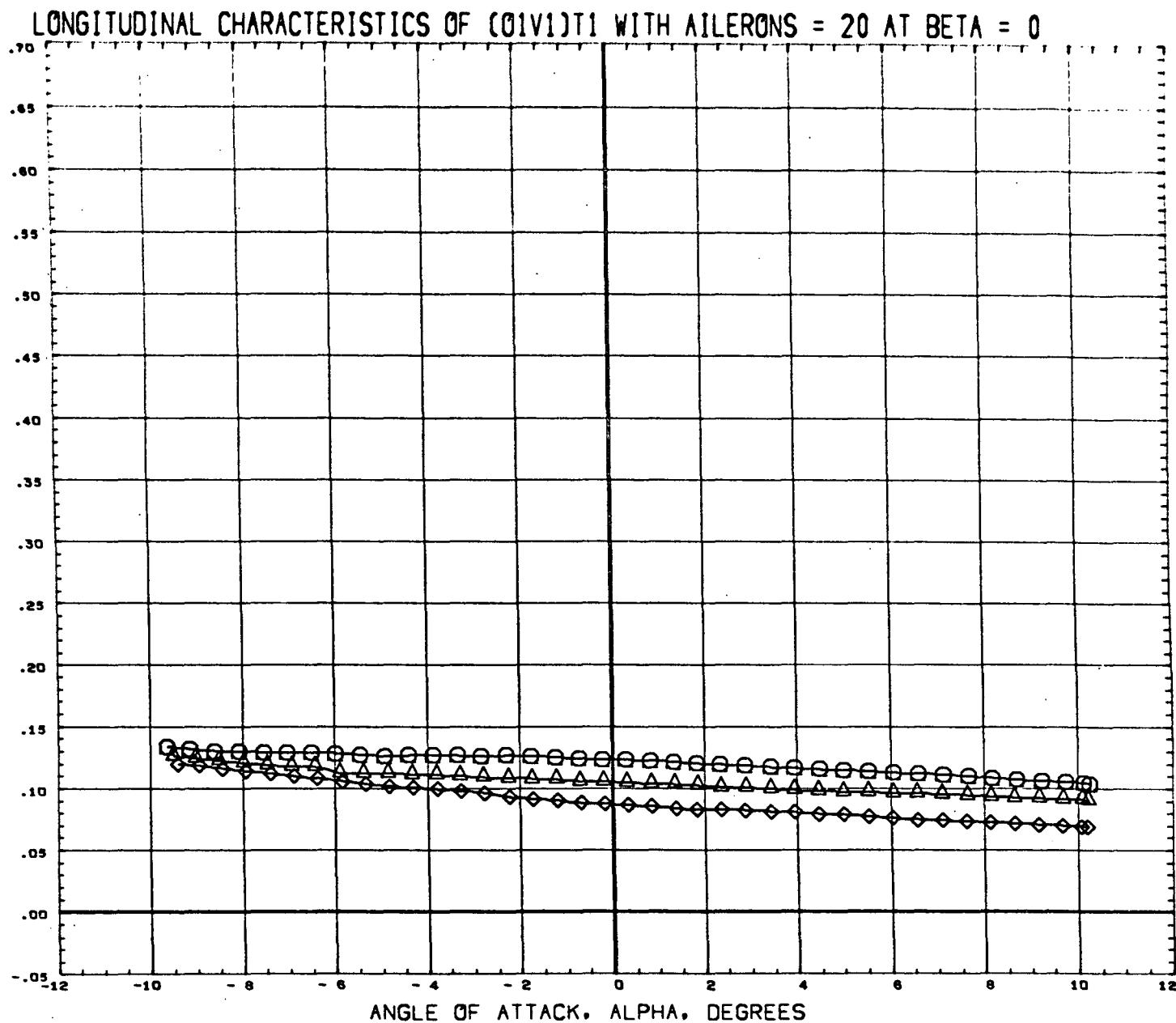
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

REFERENCE INFORMATION
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 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRF 557.0004 IN.
 YMRF 0.0000 IN.
 ZMRF 200.0004 IN.
 SCALE 0.0060 SCALE

(CD74B7) 12 SEP 72 PAGE 371

FOREBODY AXIAL FORCE COEFFICIENT, CAF



ANGLE OF ATTACK, ALPHA, DEGREES

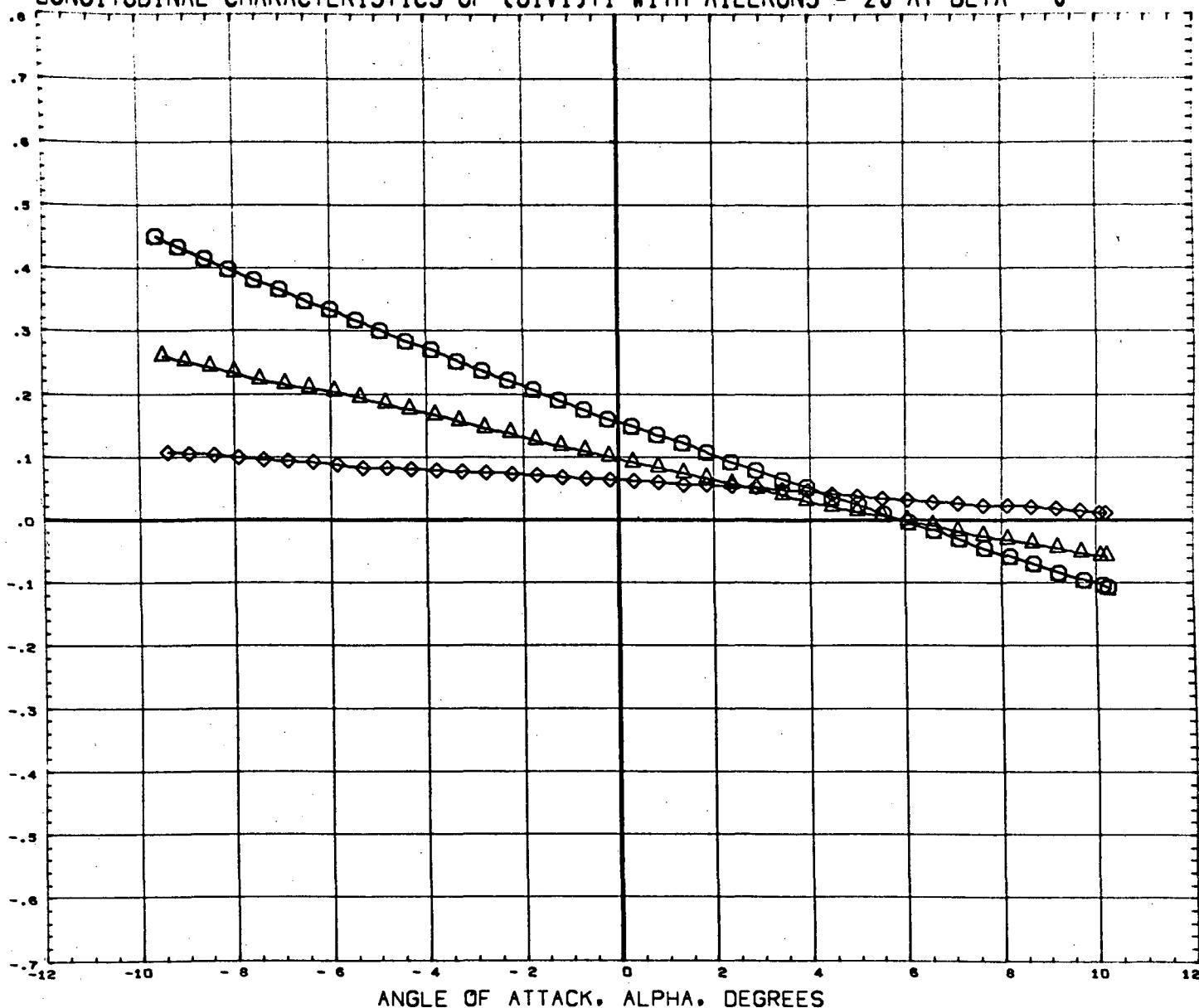
SYMBOL MACH PARAMETRIC VALUES
 ○ 1.507 BETA 0.000 AILERON 20.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000
 ◇ 4.469

DATA HIST. CODE TV

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060 SCALE

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0

PITCHING MOMENT COEFFICIENT. CLM

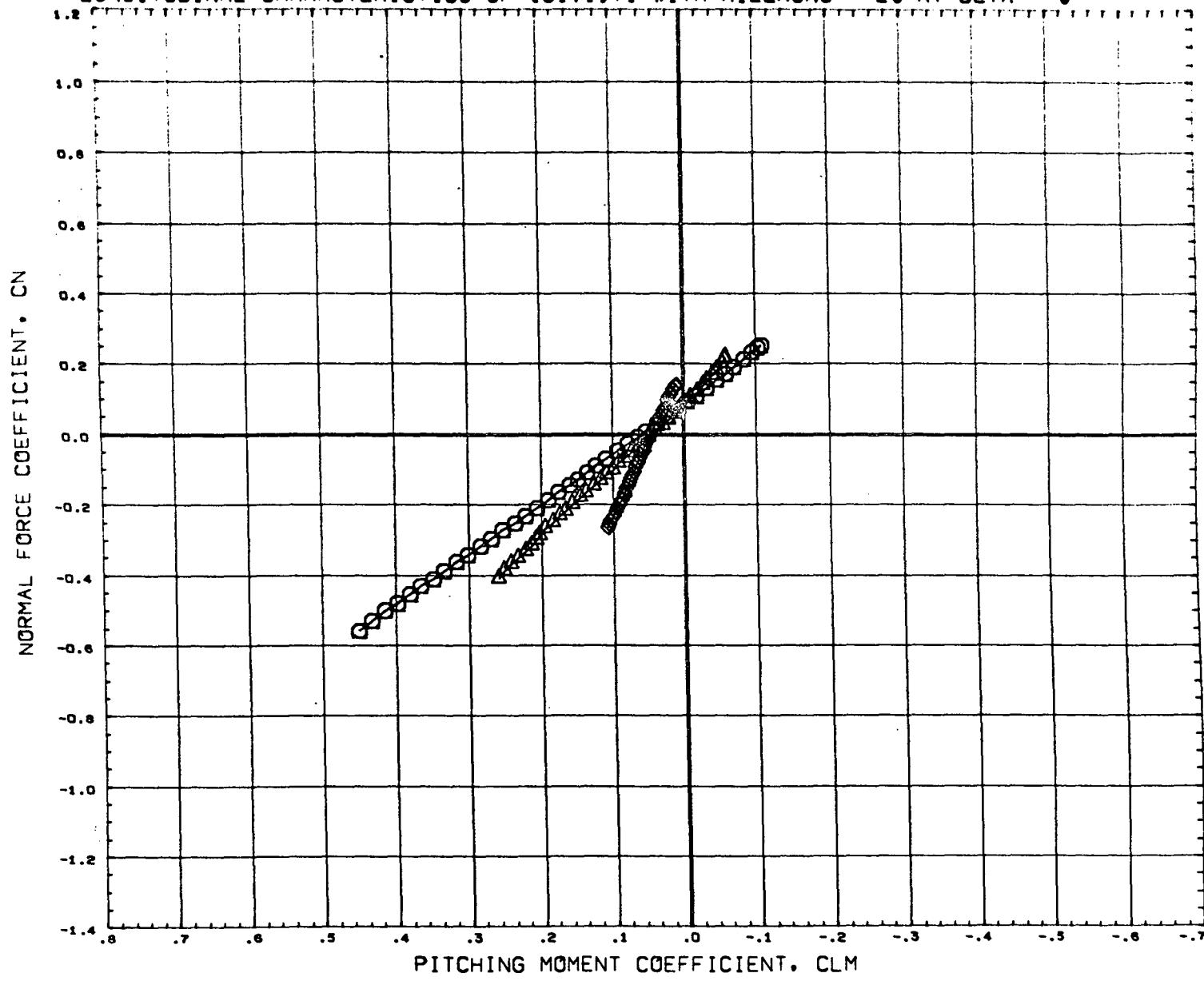


SYMBOL MACH PARAMETRIC VALUES
 O 1.507 BETA 0.000 AILERON 20.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000
 ◊ 4.469

DATA HIST. CODE TV

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060 SCALE

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0



SYMBOL	MACH	BETA	PARAMETRIC VALUES		
O	1.507	0.000	AILRON	20.000	
△	2.203	ELEVTR	0.000	RUDDER	0.000
◊	4.469				

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
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XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

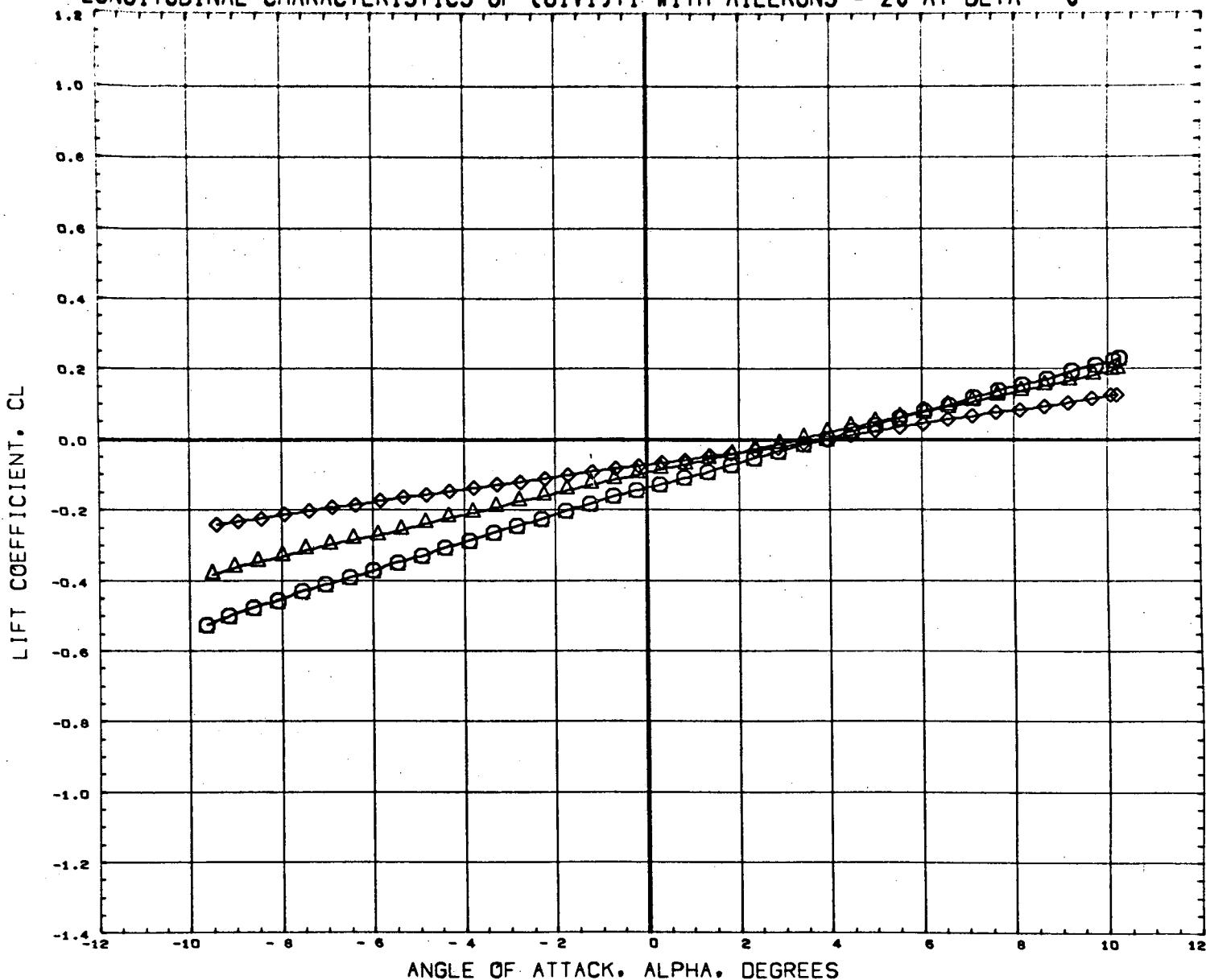
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

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LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0

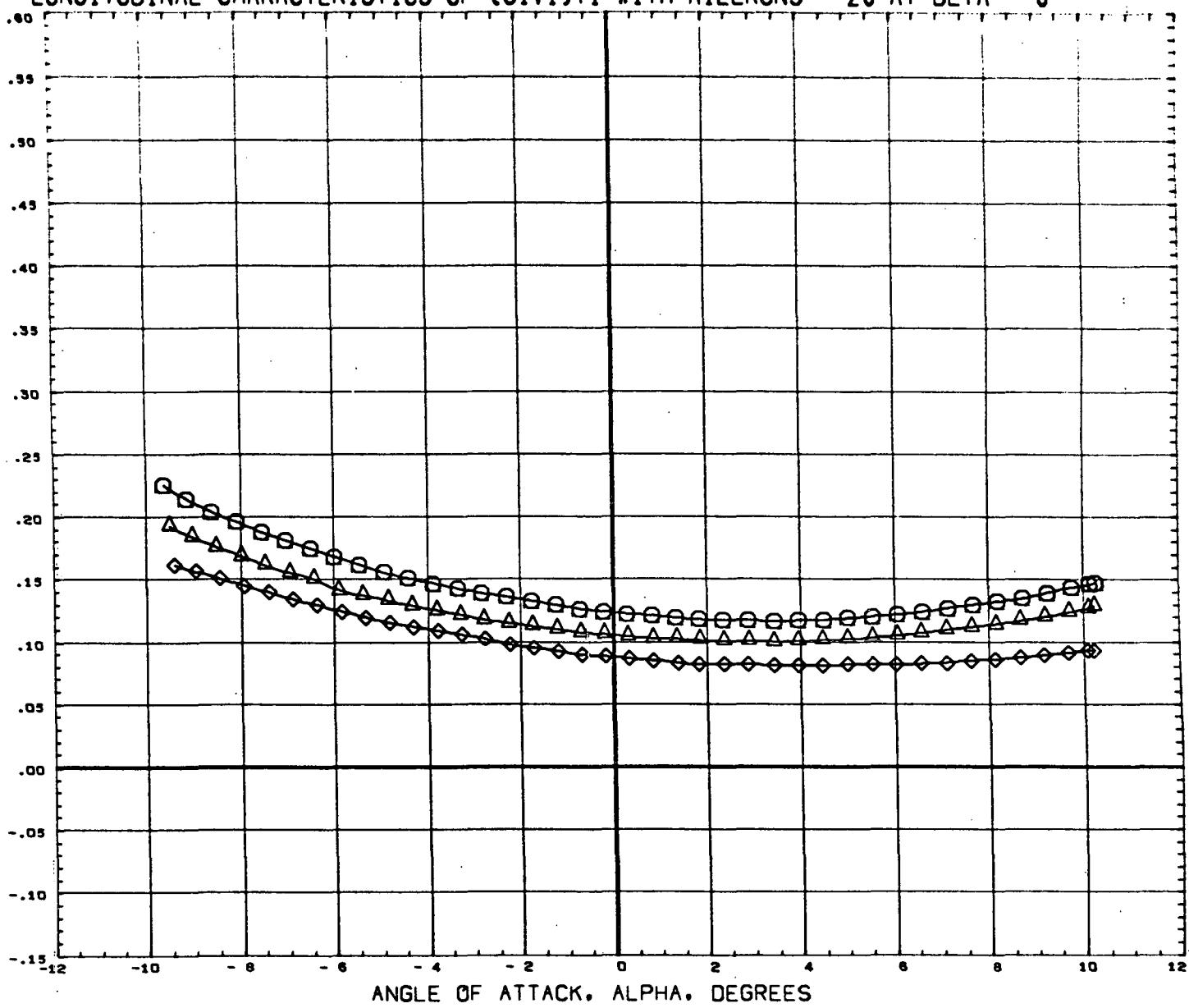


SYMBOL	MACH	BETA	PARAMETRIC VALUES
O	1.507	0.000	AILRON 20.000
△	2.203	0.000	RUDDER 0.000
◊	4.469		

DATA MIST. CODE TV

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	682.0004	IN.
XMRP	537.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES	
○	1.507	BETA	0.000	AIRLON 20.000
△	2.203	ELEVTR	0.000	RUDDER 0.000
◊	4.469			

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
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XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

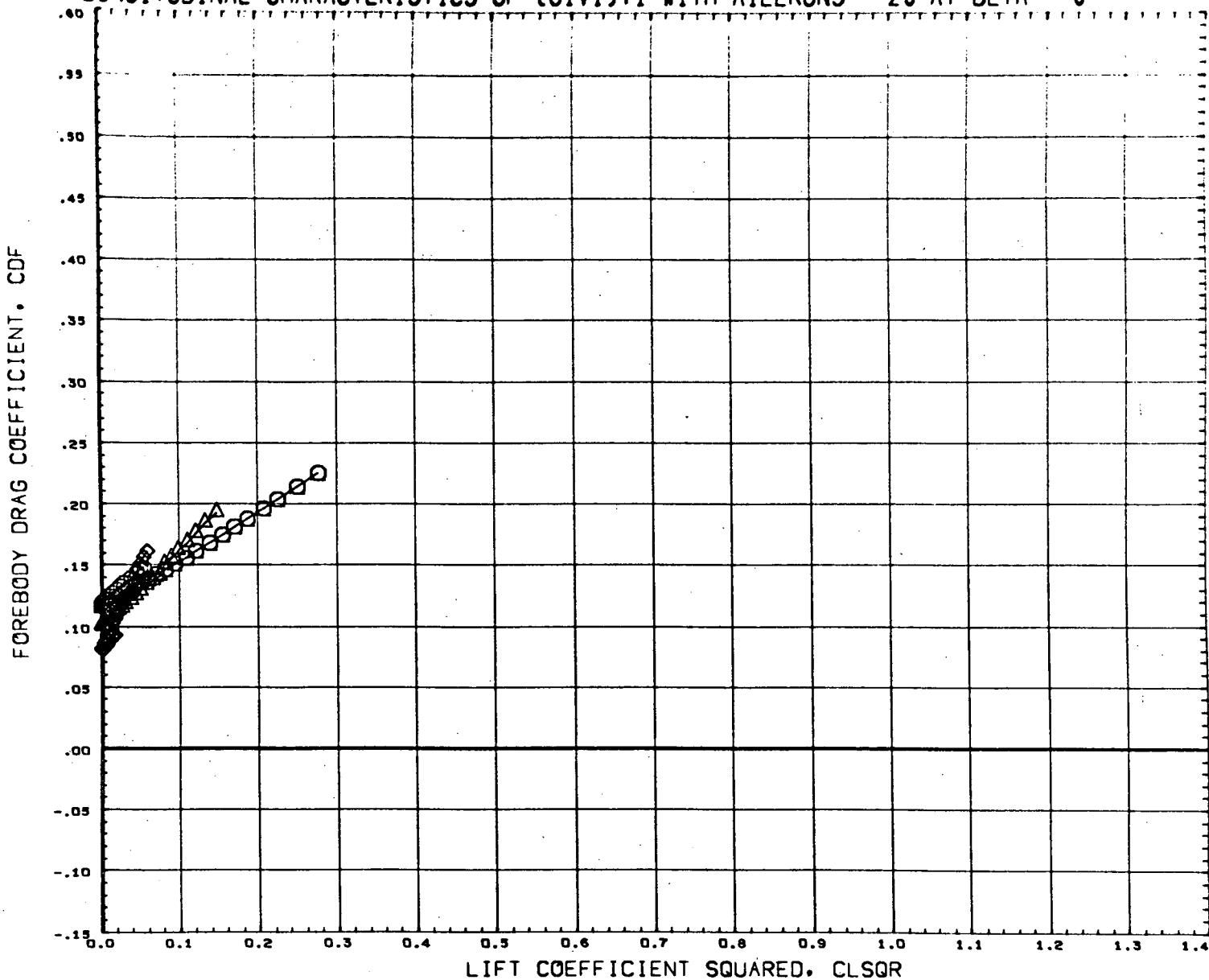
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

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LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES		
	1.507	BETA	0.000	AIRLON
	2.203	ELEVTR	0.000	RUDDER
	4.469			

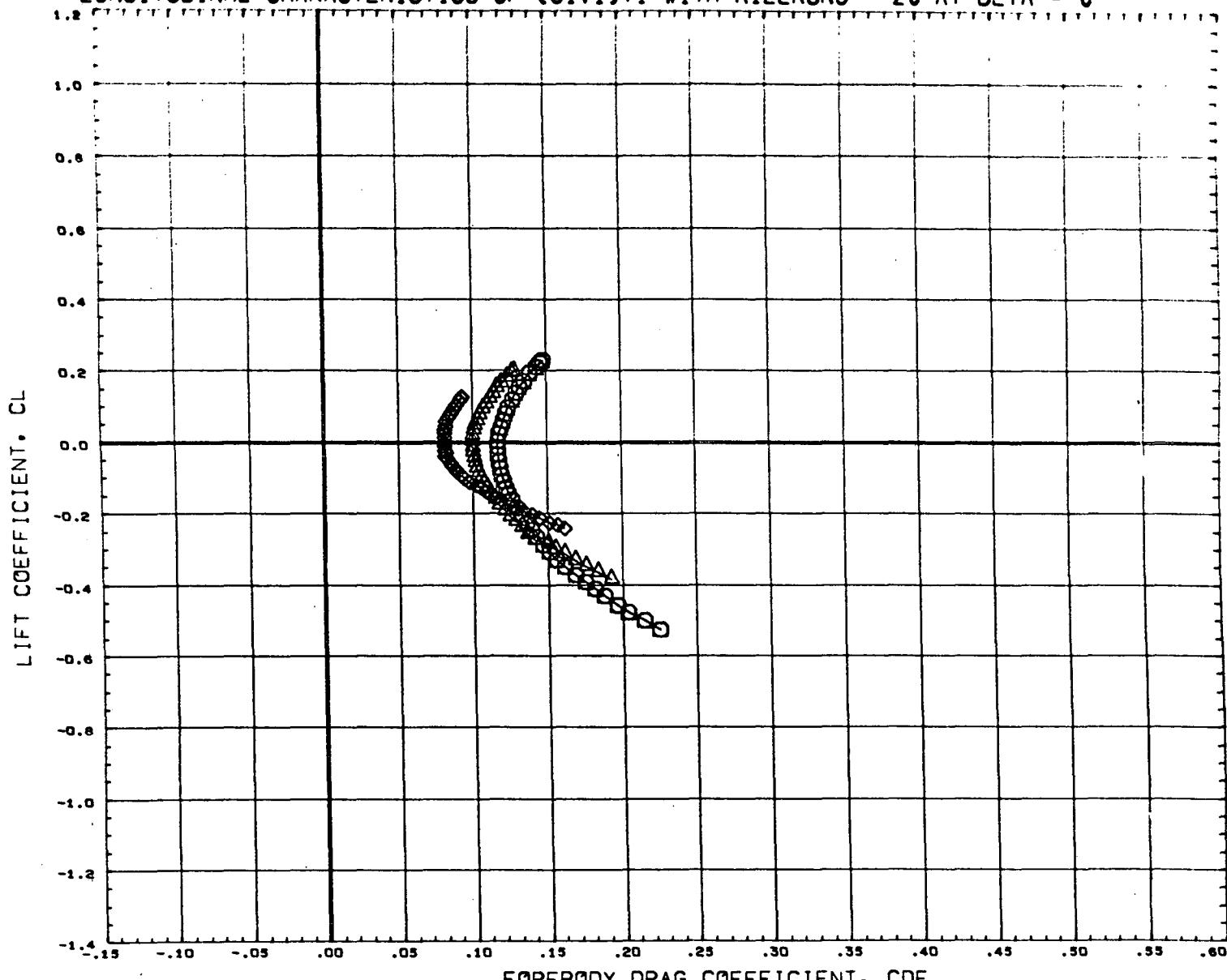
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BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

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LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES		
O	1.507	BETA	0.000	AILERON 20.000
△	2.203	ELEVTR	0.000	RUDDER 0.000
◊	4.469			

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

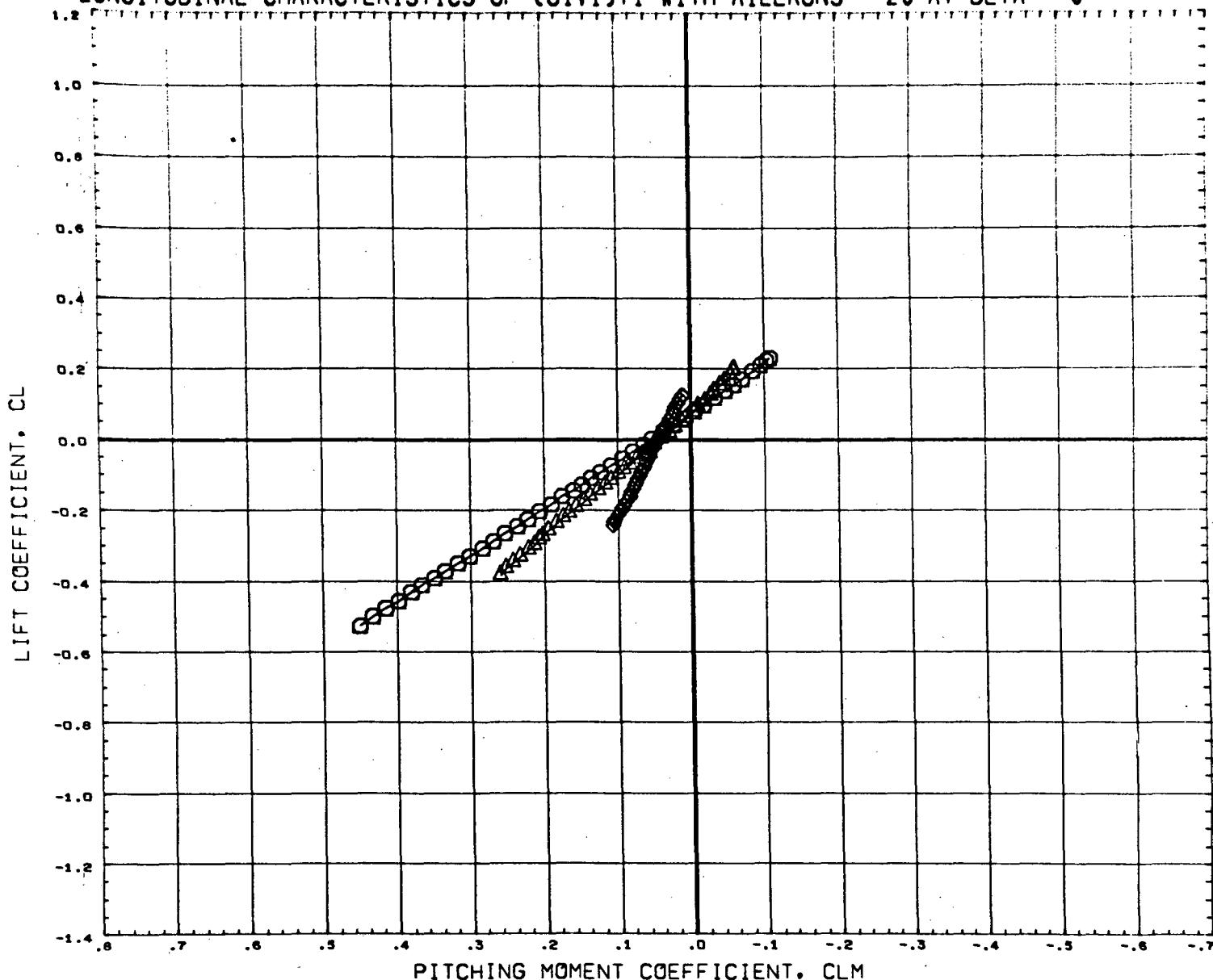
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

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LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES	
	1.507	BETA	0.000	AIRLON 20.000
	2.203	ELEVTR	0.000	RUDDER 0.000
	4.469			

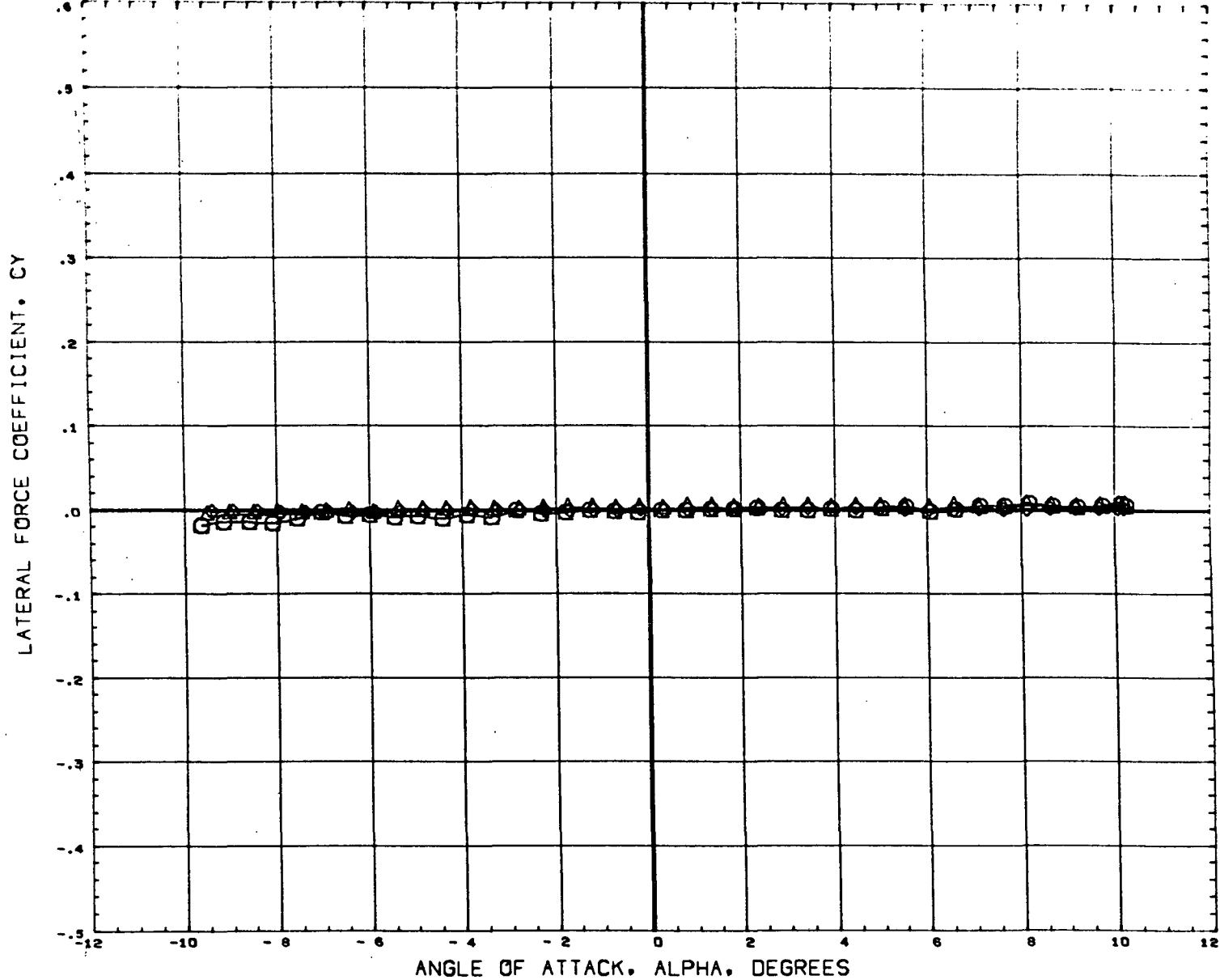
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XMRP	882.0004	IN.
YMRP	557.0004	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

DATA HIST - SCORE

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

(CD74B7) 12 SEP 72 PAGE 379

LATERAL-DIRECTIONAL CHARACTERISTICS OF C0IV1T1 WITH AILERONS = 20 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	BETA	0.000	AILRDN	20.000
	2.203	ELEVTR	0.000	RUDDER	0.000
	4.469				

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

REFERENCE FILE

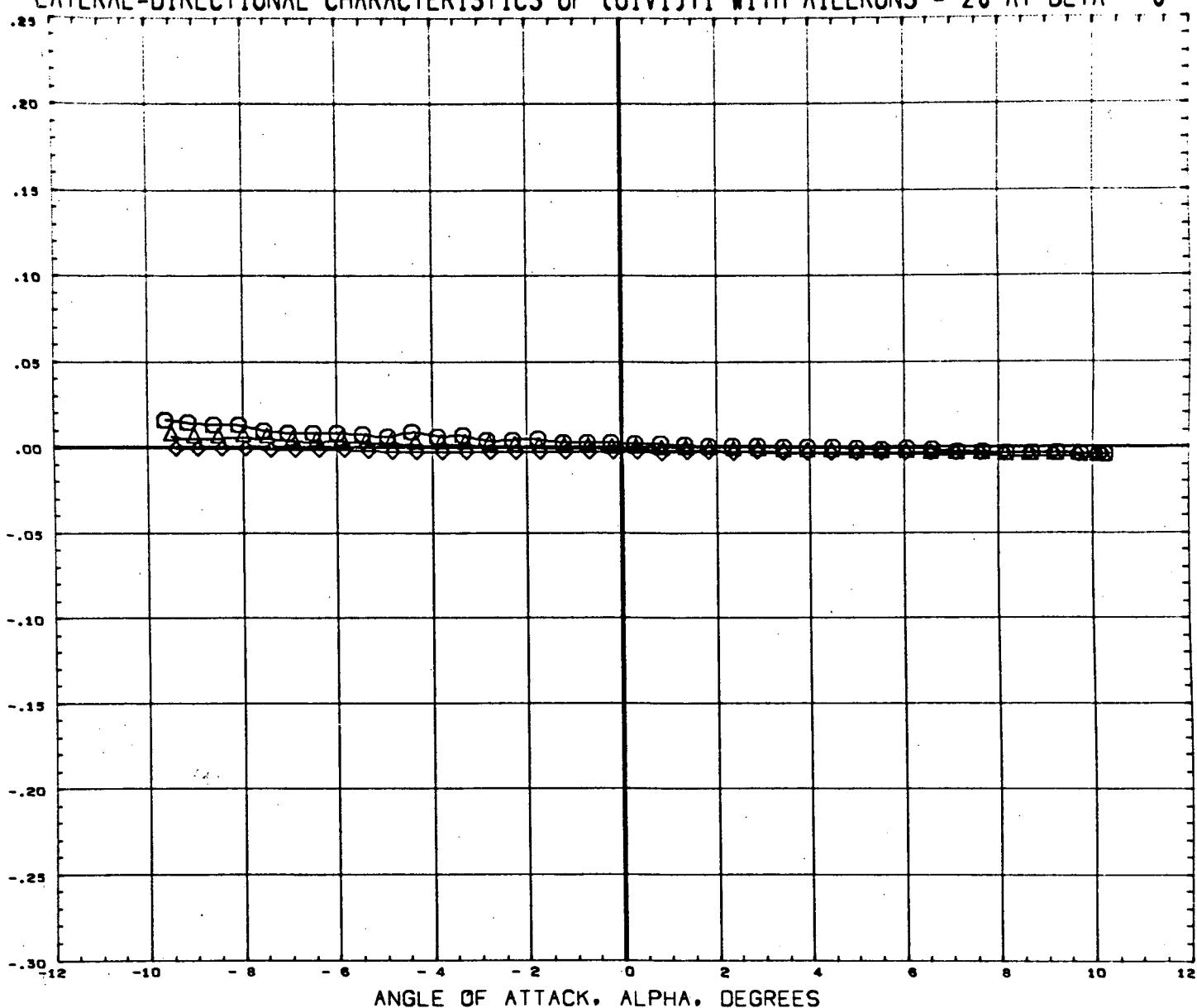
MDAC S-222 COMPOSITE(T-CG) (01V1)T1

(RD74B7) 25 APR 72

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LATERAL-DIRECTIONAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



SYMBOL MACH PARAMETRIC VALUES
 □ 1.507 BETA 0.000 AILERON 20.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000
 ◇ 4.469

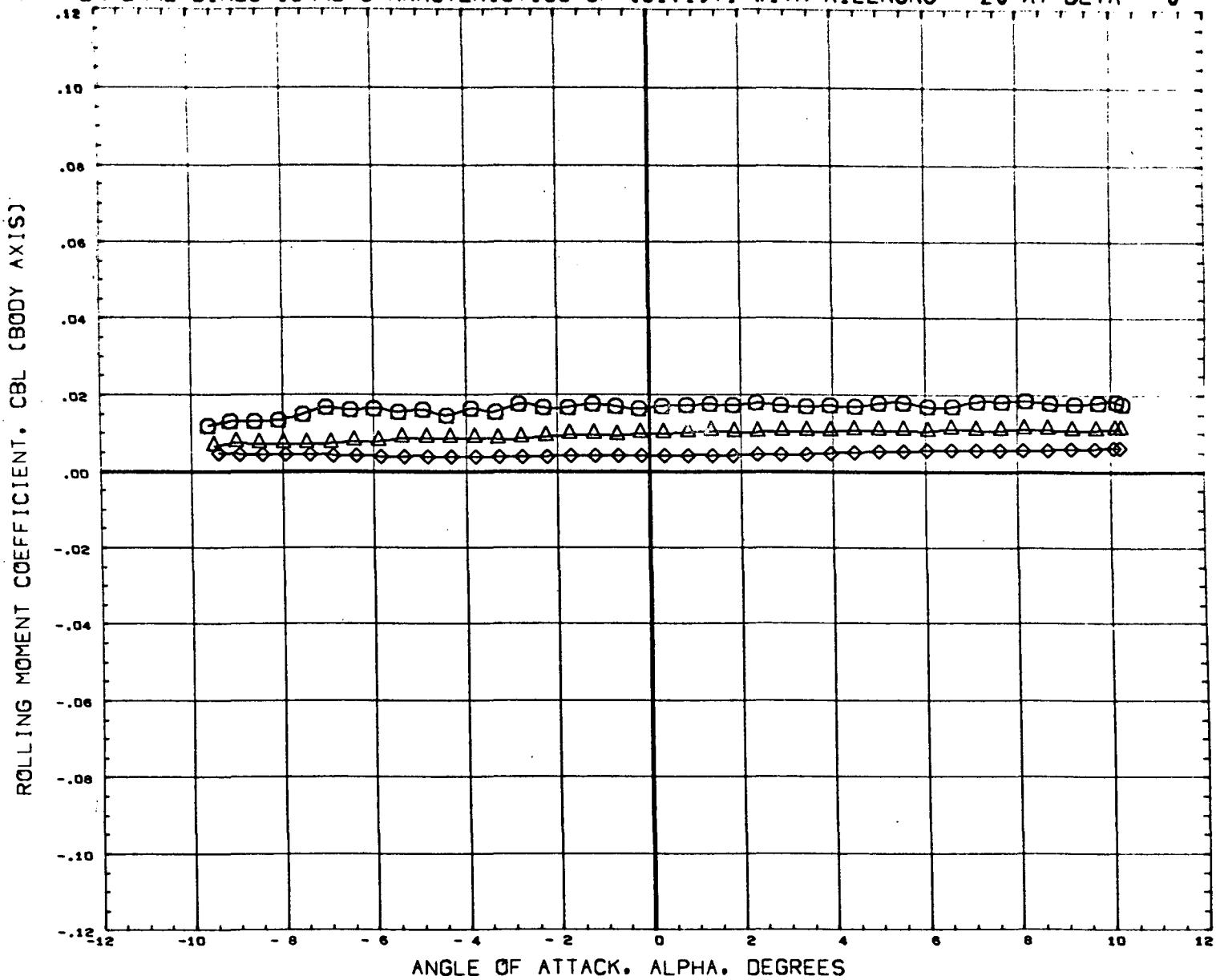
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 YMNP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060 SCALE

REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

(RD74B7) 25 APR 72 PAGE 381

LATERAL-DIRECTIONAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT BETA = 0



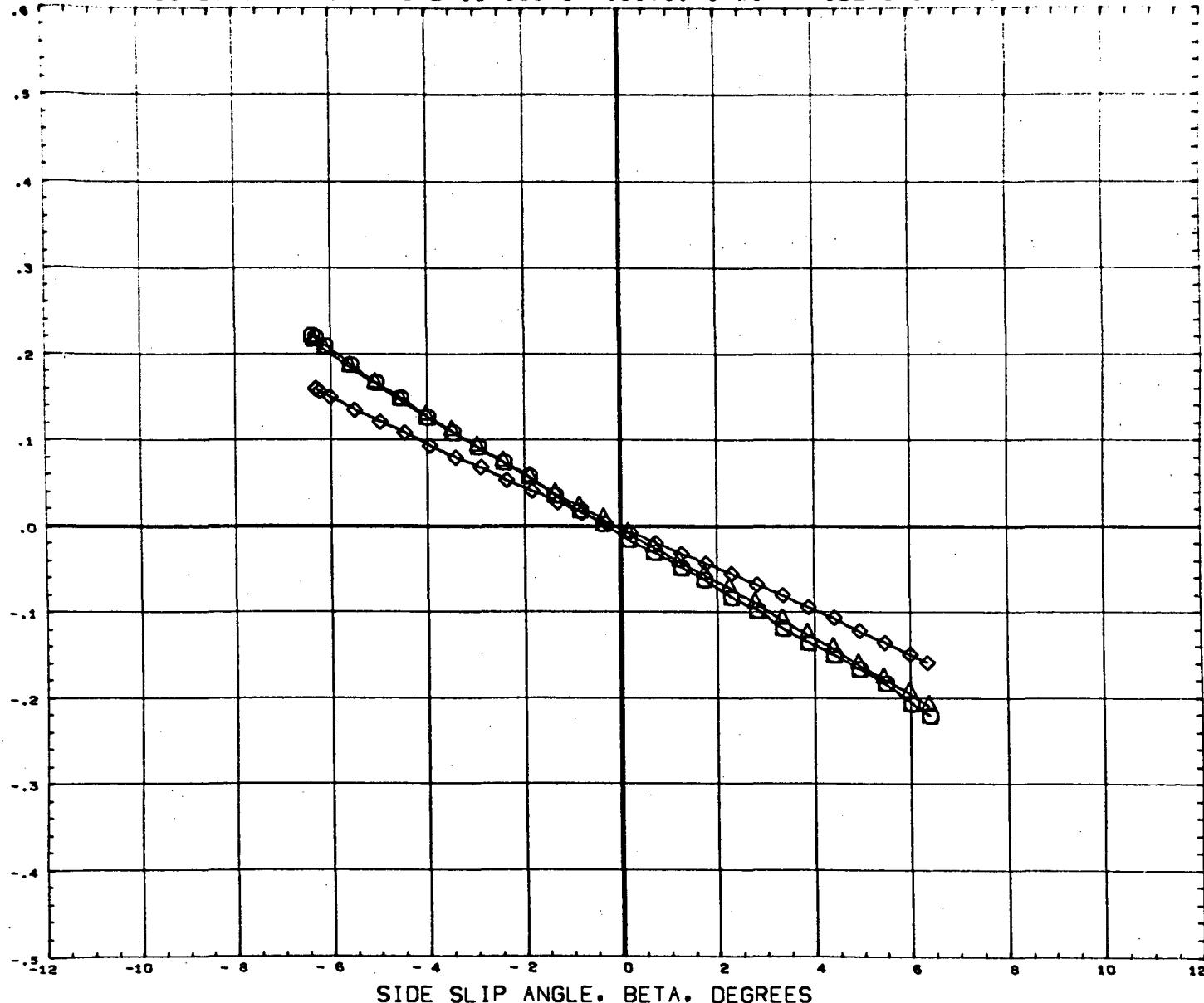
SYMBOL MACH PARAMETRIC VALUES
 O 1.507 BETA 0.000 AILRDN 20.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000
 ◊ 4.469

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRF 557.0004 IN.
 YMRF 0.0000 IN.
 ZMRF 200.0004 IN.
 SCALE 0.0060 SCALE

REFERENCE FILE

LATERAL-DIRECTIONAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT ALPHA = 0

LATERAL FORCE COEFFICIENT. CY



SYMBOL MACH PARAMETRIC VALUES
 ○ 1.507 ALPHA 0.000 AILRDN 20.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000
 ◇ 4.469

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
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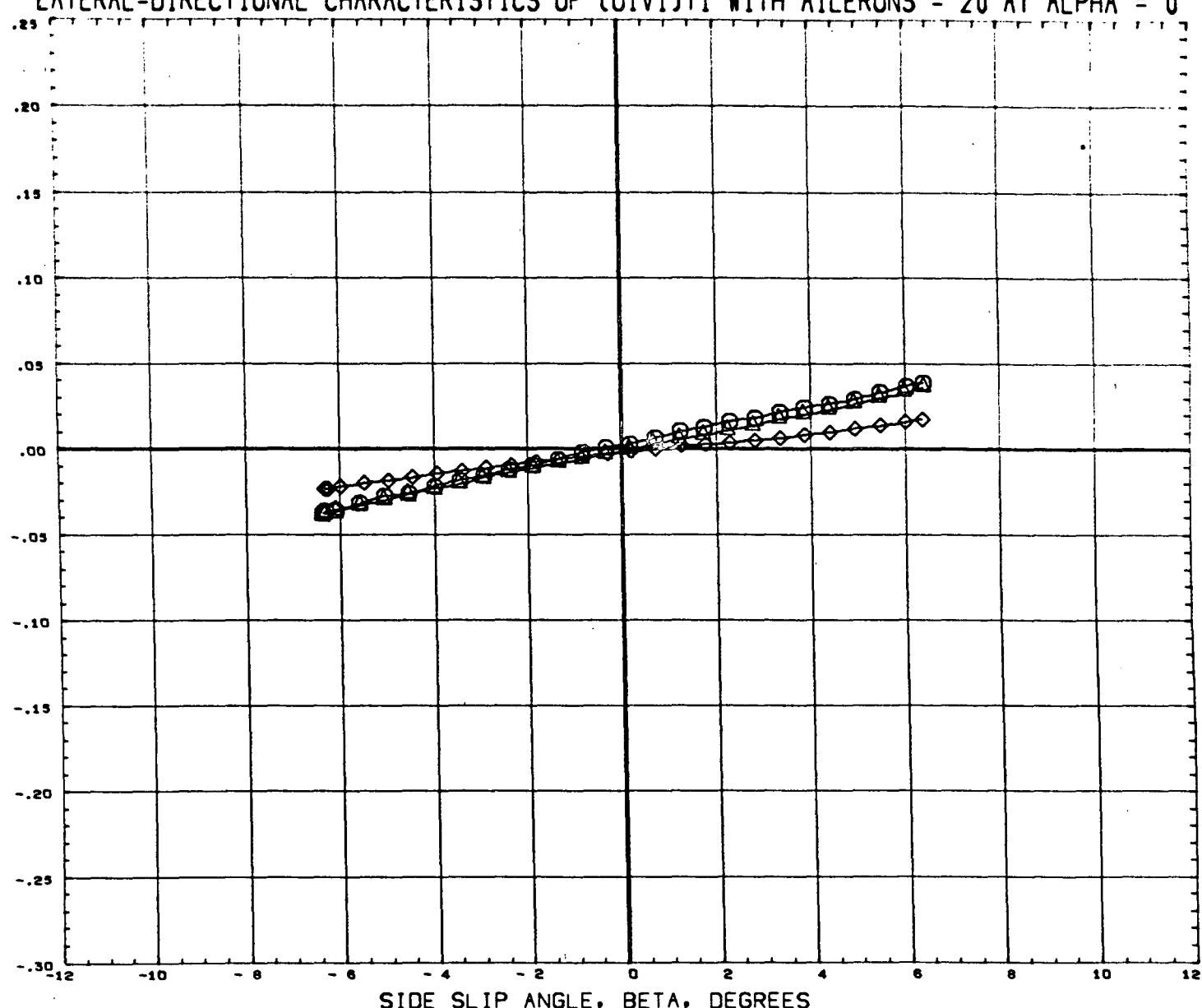
REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

(RD74B8) 25 APR 72 PAGE 383

LATERAL-DIRECTIONAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL	MACH	PARAMETRIC VALUES
O	1.507	ALPHA 0.000 AILERON 20.000
△	2.203	ELEVTR 0.000 RUDDER 0.000
◊	4.469	

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

REFERENCE FILE

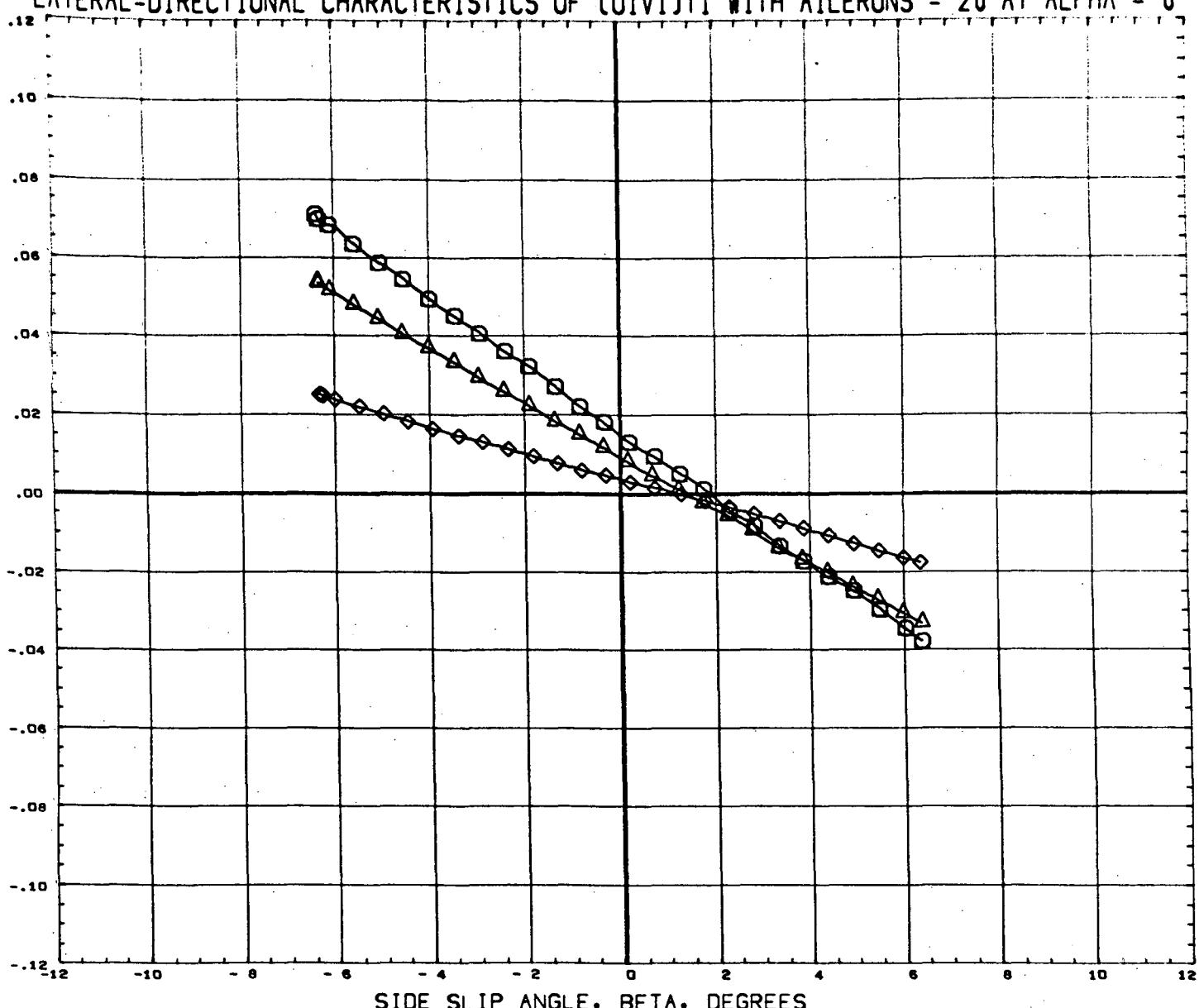
MDAC S-222 COMPOSITE(T-CG) (01V1)T1

(RD74B8) 25 APR 72

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LATERAL-DIRECTIONAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



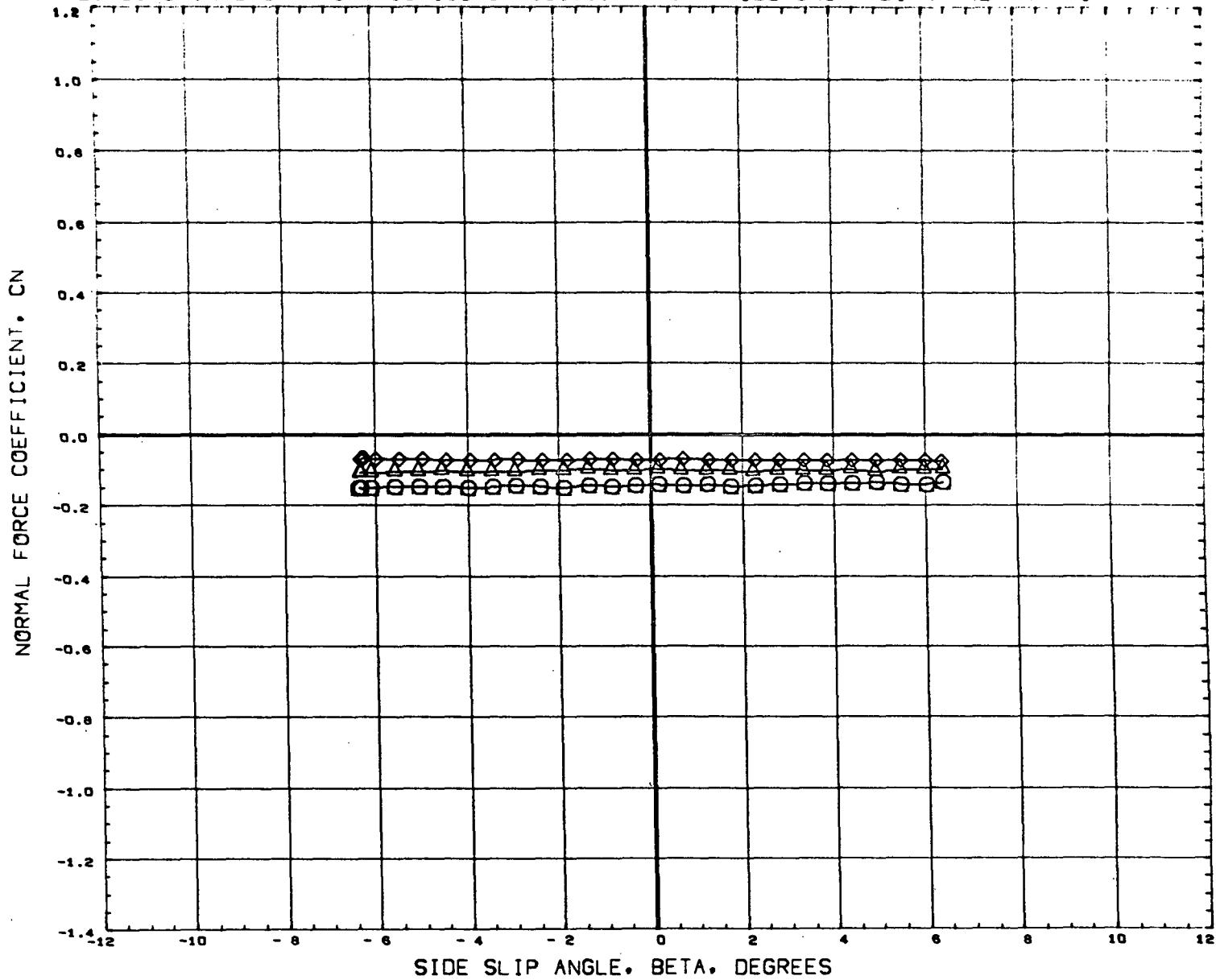
SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL	MACH	PARAMETRIC VALUES
○	1.507	ALPHA 0.000 AILRDN 20.000
△	2.203	ELEVTR 0.000 RUDDER 0.000
◊	4.469	

REFERENCE FILE

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT ALPHA = 0



SYMBOL	MACH		PARAMETRIC VALUES	
○	1.507	ALPHA	0.000	AIRLON 20.000
△	2.203	ELEVTR	0.000	RUDDER 0.000
◊	4.469			

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

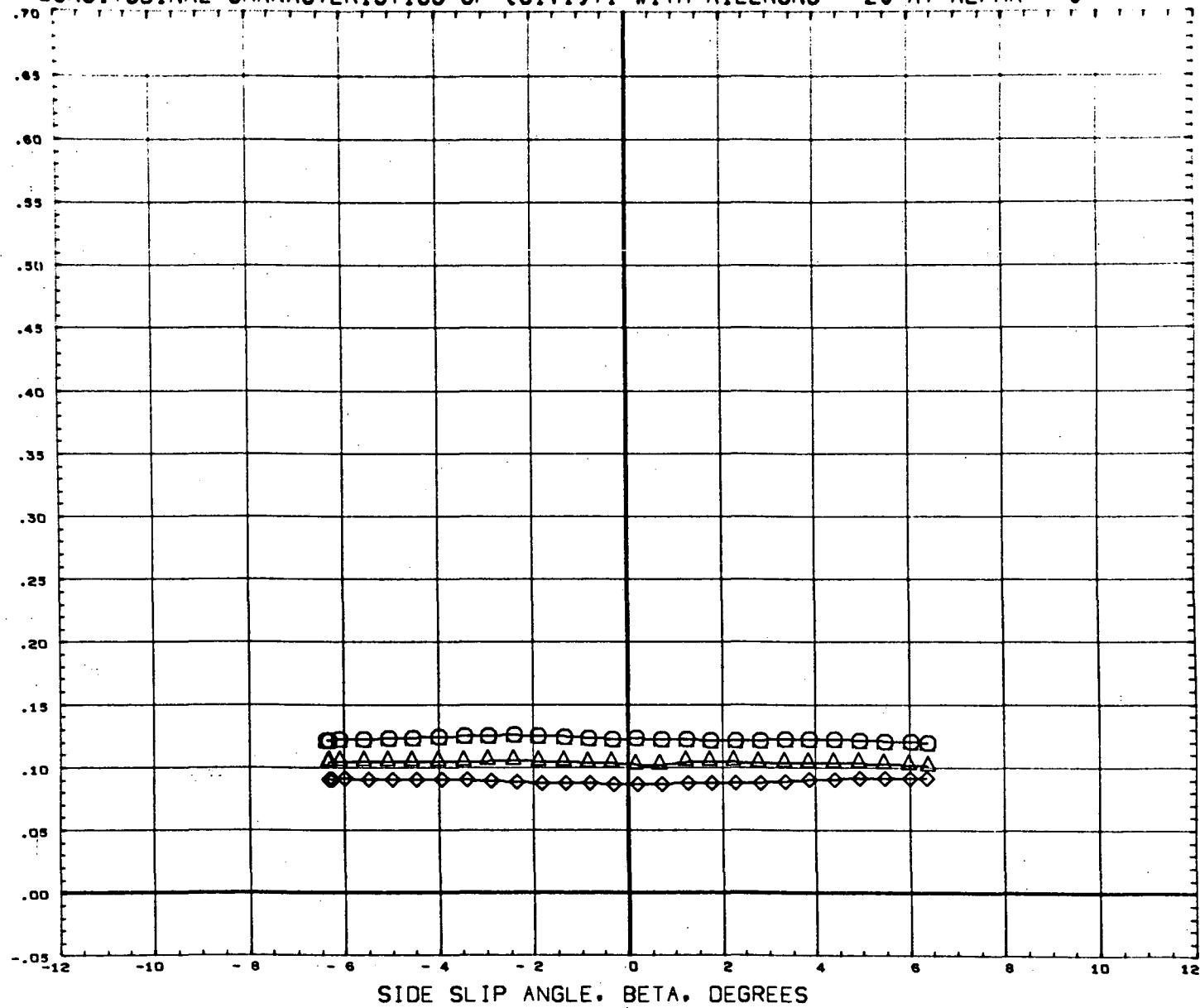
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

(CD74B8) 12 SEP 72 PAGE 386

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT. CAF

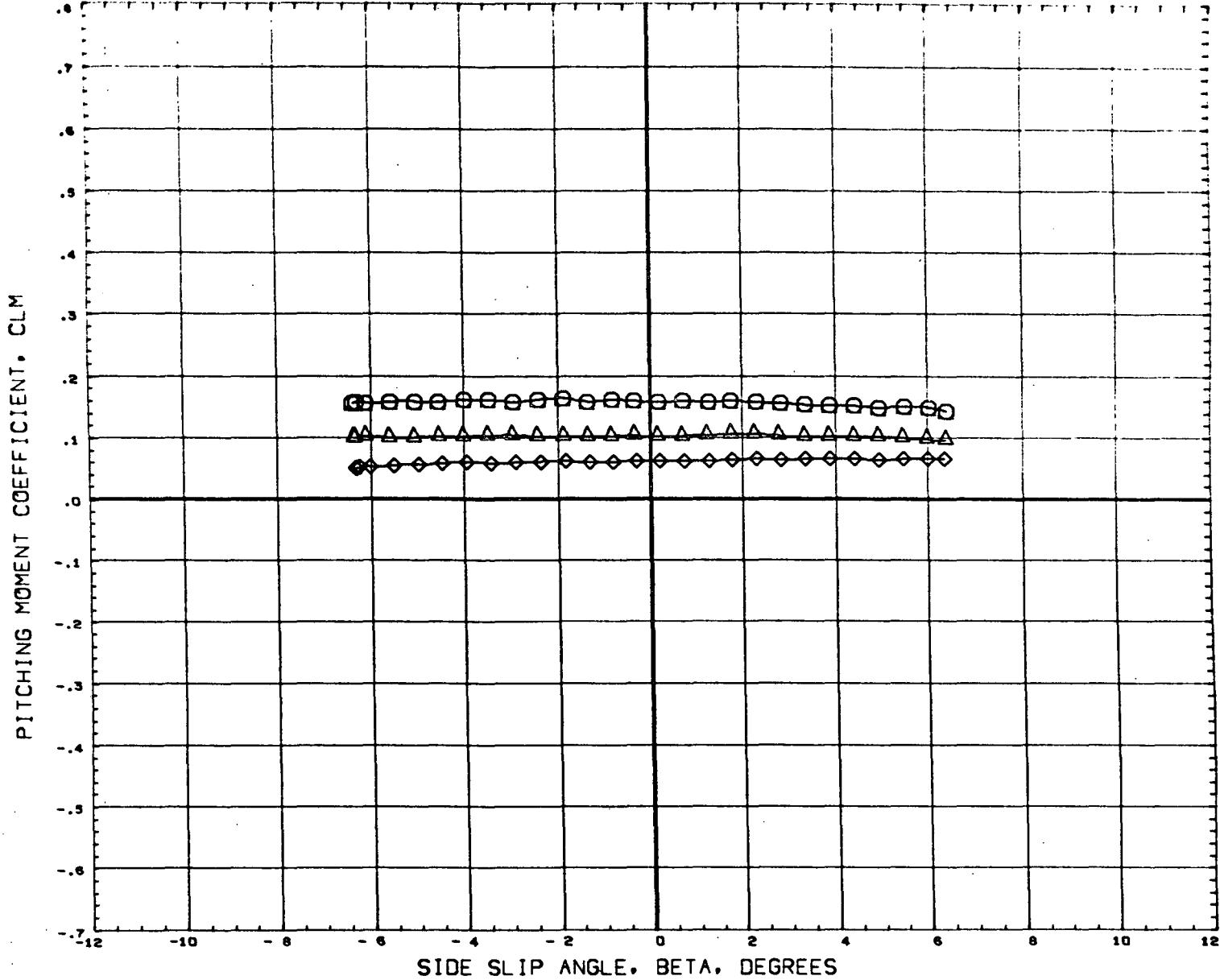


SYMBOL MACH PARAMETRIC VALUES
 ○ 1.507 ALPHA 0.000 AILERON 20.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000
 ◇ 4.469

DATA HIST. CODE TV

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMNP 0.0000 IN.
 ZNRP 200.0004 IN.
 SCALE 0.0060 SCALE

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT ALPHA = 0



SYMBOL MACH PARAMETRIC VALUES

○ 1.507 ALPHA 0.000 ATLRON 20.000

△ 2.203 ELEVTR 0.000 RUDDER 0.000

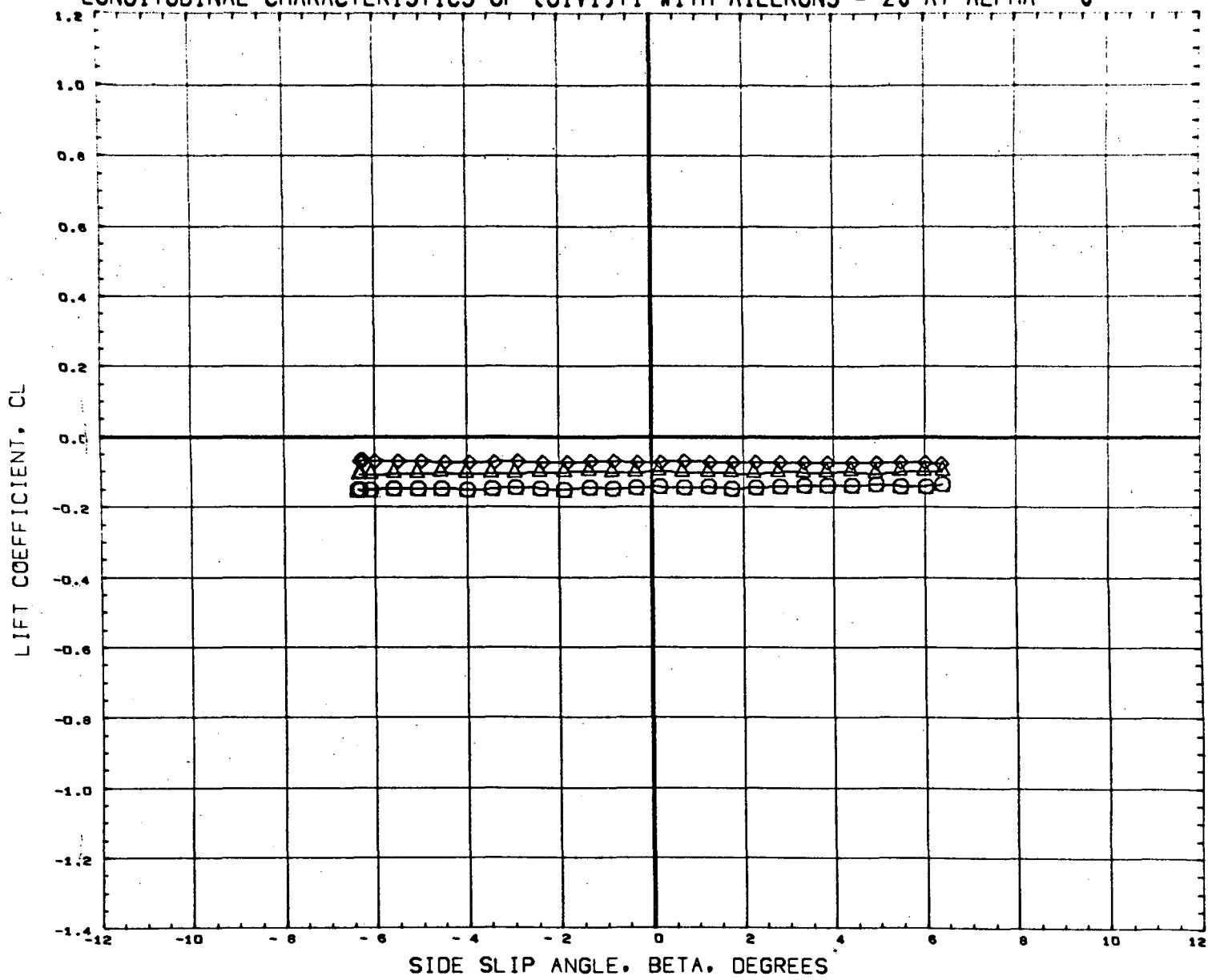
◊ 4.469

DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) (01V1)T1

(CD74B8) 12 SEP 72 PAGE 388

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT ALPHA = 0



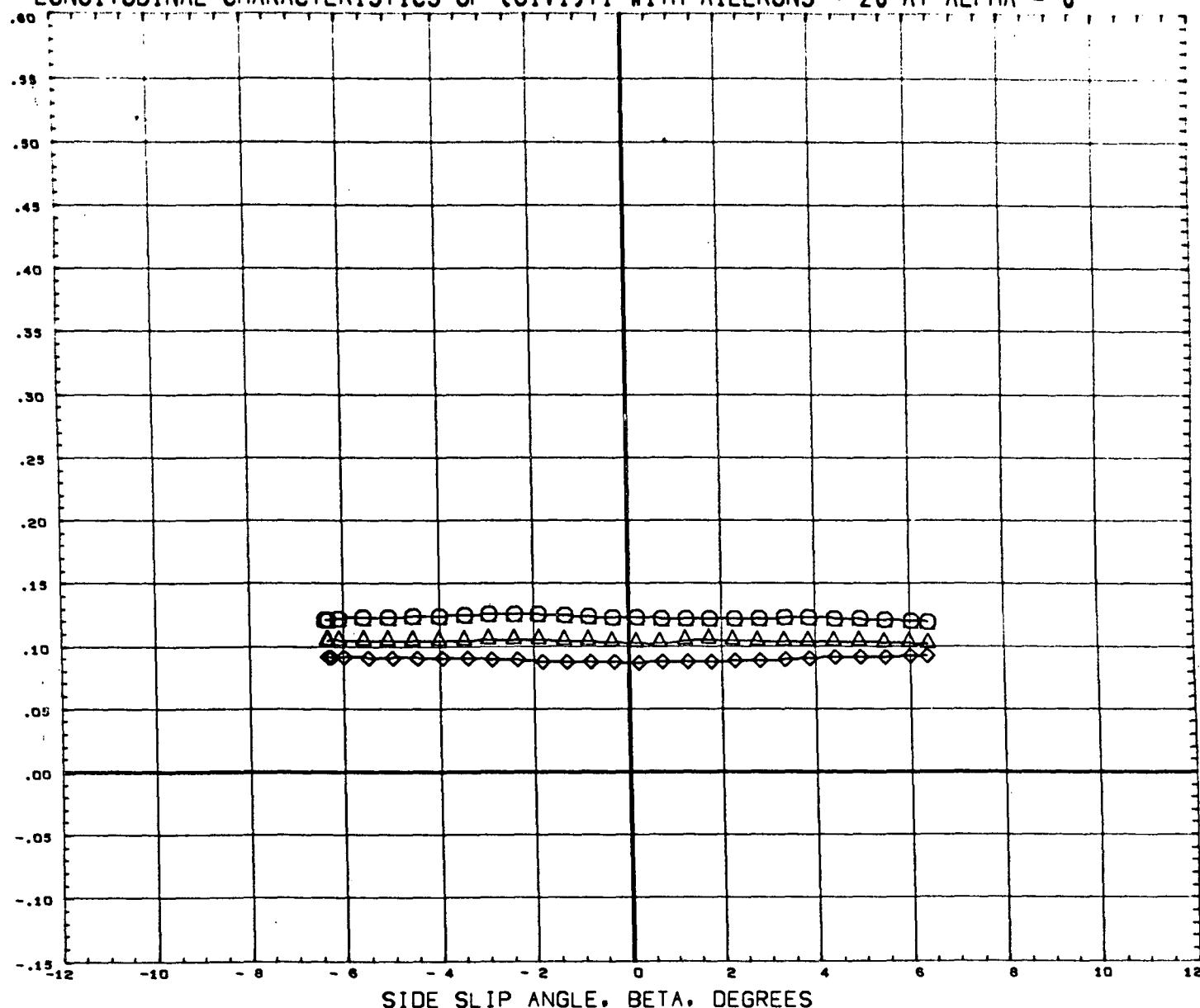
PARAMETRIC VALUES					
SYMBOL	MACH	ALPHA	0.000	AILRDN	20.000
○	1.507	ELEVTR	0.000	RUDDER	0.000
△	2.203				
◊	4.469				

DATA HIST. CODE TV

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	SCALE

LONGITUDINAL CHARACTERISTICS OF (01V1)T1 WITH AILERONS = 20 AT ALPHA = 0

FOREBODY DRAG COEFFICIENT, CDF



SIDE SLIP ANGLE, BETA, DEGREES

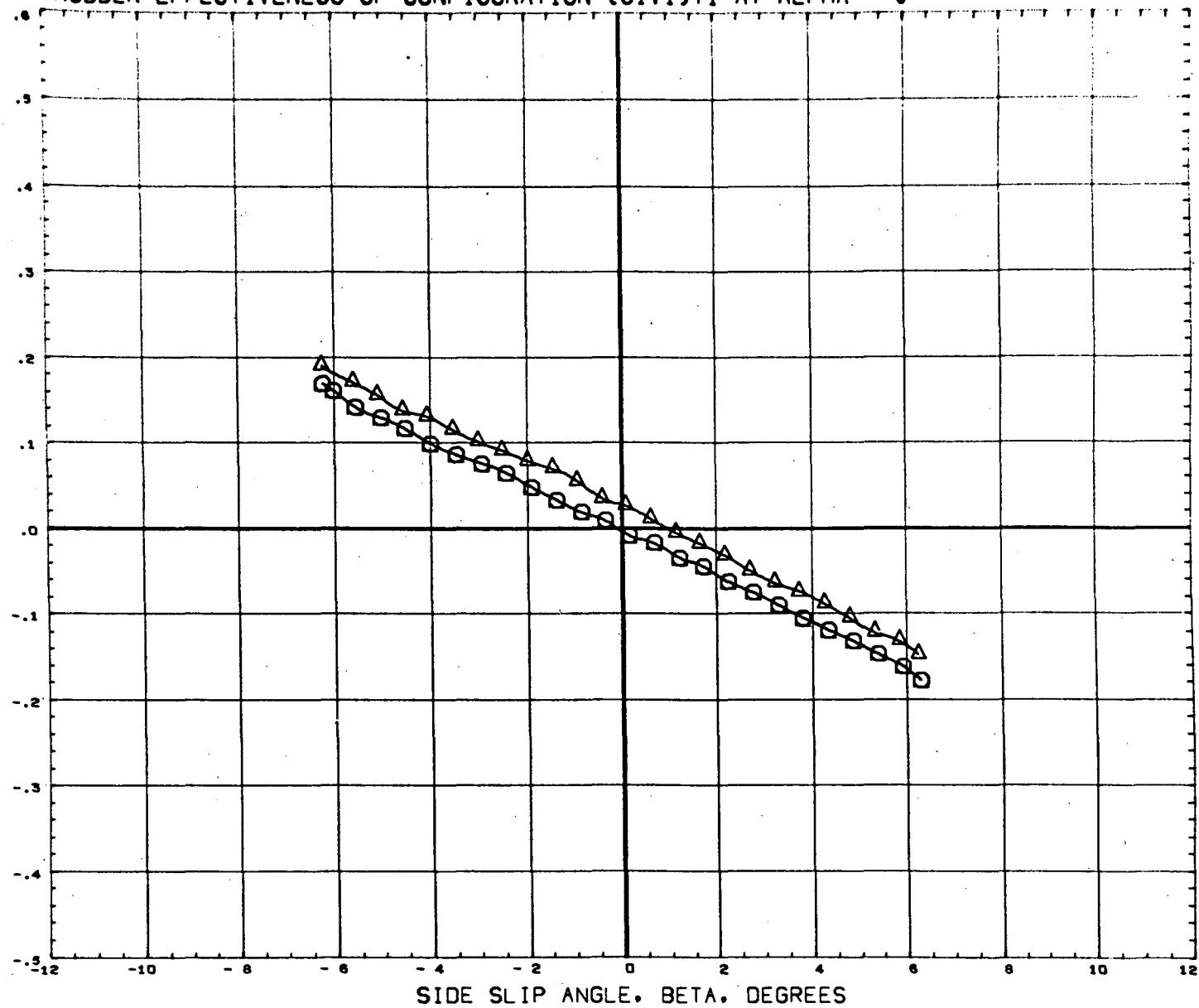
SYMBOL MACH PARAMETRIC VALUES
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 △ 2.203 ELEVTR 0.000 RUDDER 0.000
 ◇ 4.469

DATA HIST. CODE TV

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060 SCALE

RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0

LATERAL FORCE COEFFICIENT, CY

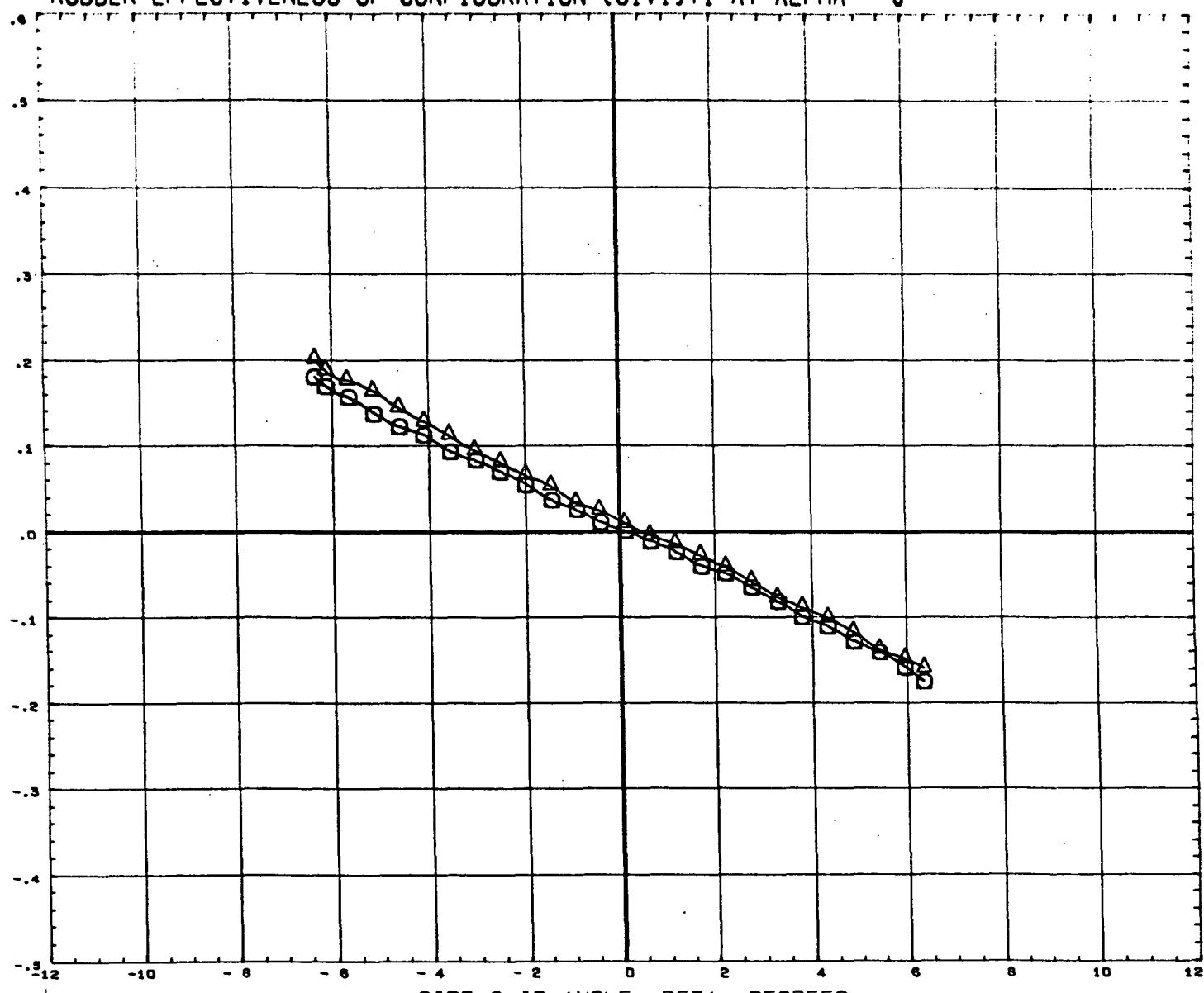


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) Q MDAC S-222 COMPOSITE(T-CG) (O1V1) T1
 (RD7446) A MDAC S-222 COMPOSITE(T-CG) (O1V1) T1

ALPHA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	10.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

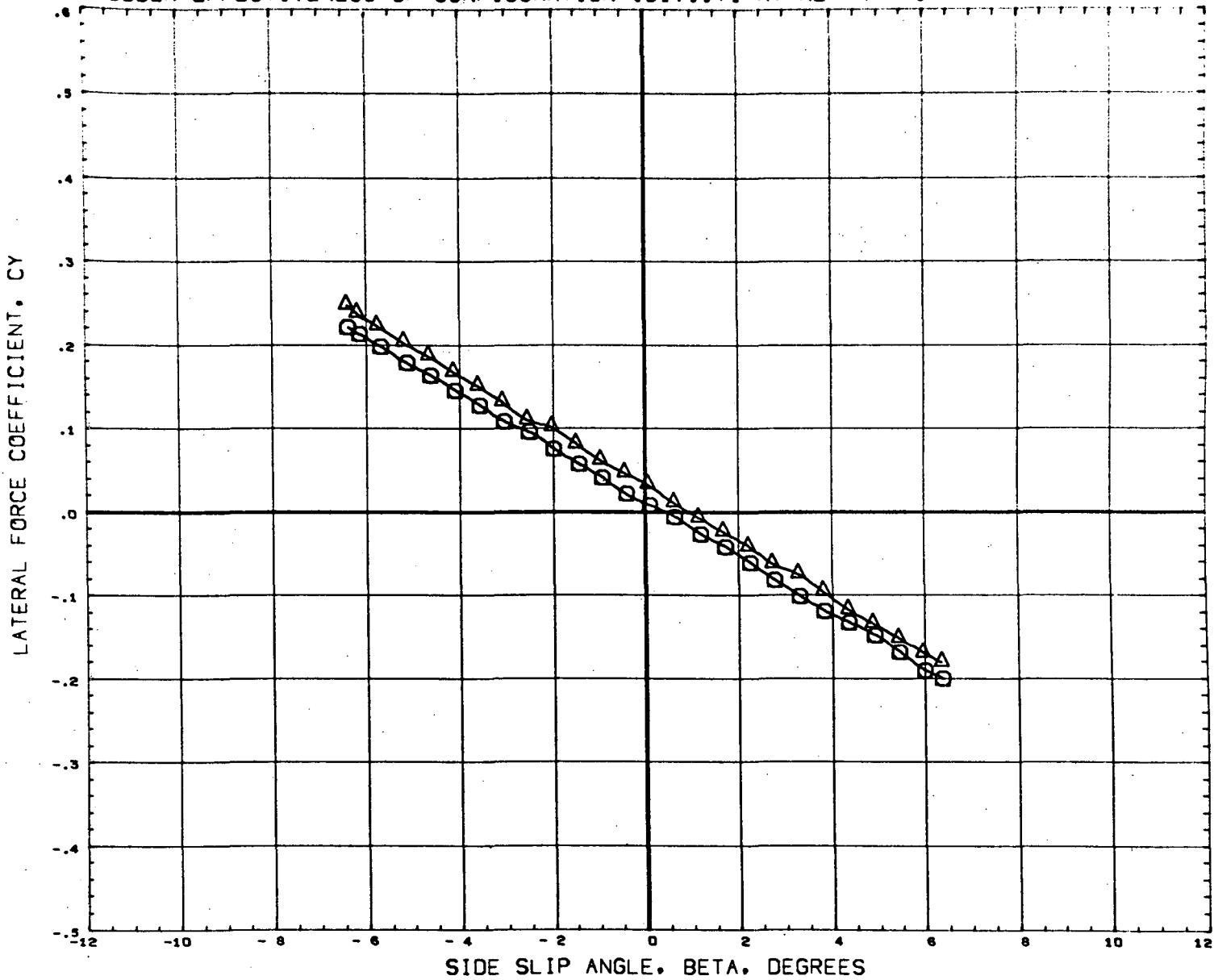
RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0

LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(RD7442)	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7446)	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

RUDDER EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT ALPHA = 0

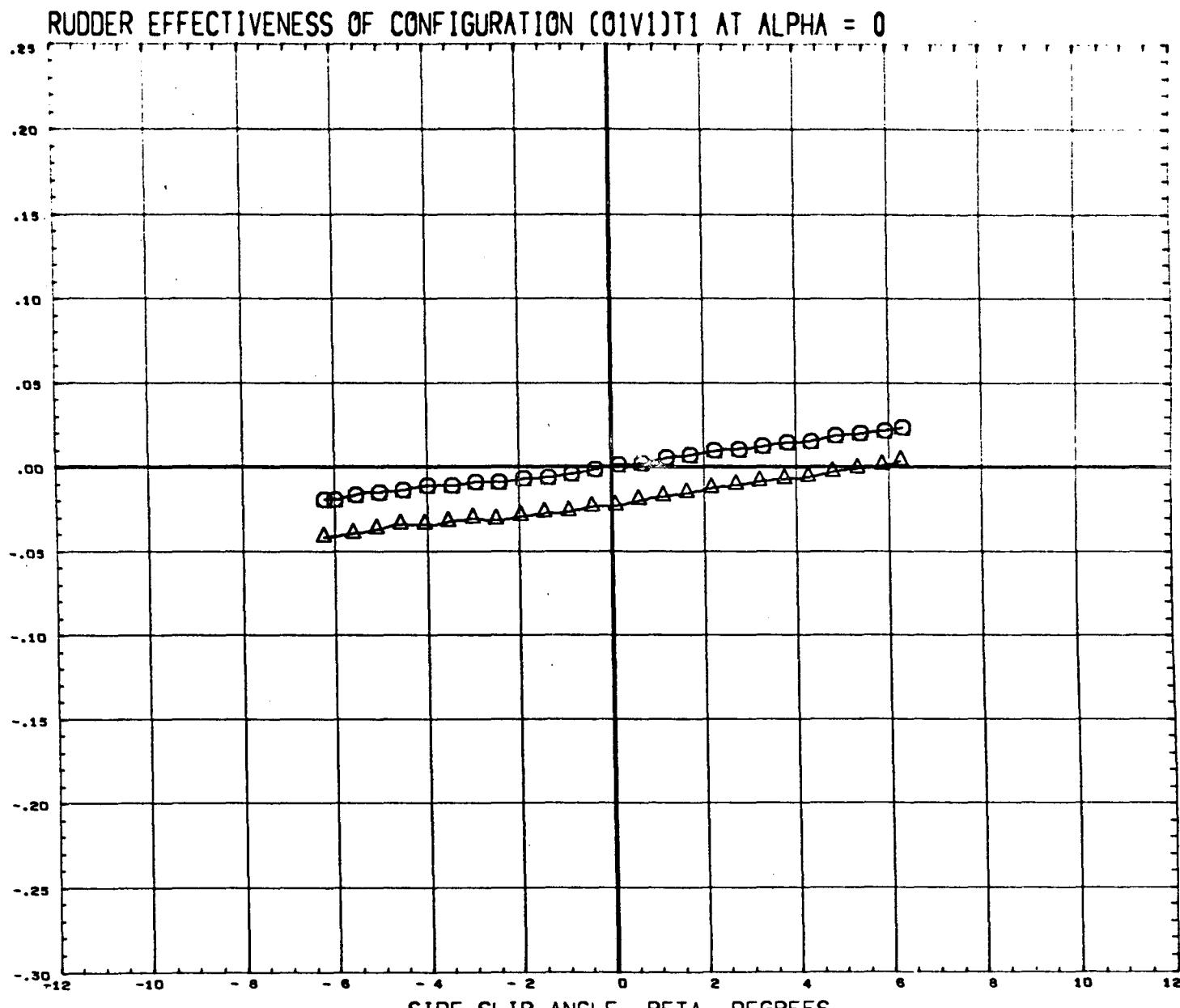


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION	
(RD7442)	Q	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7446)	Q	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
							BREF	882.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 1.10

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YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)

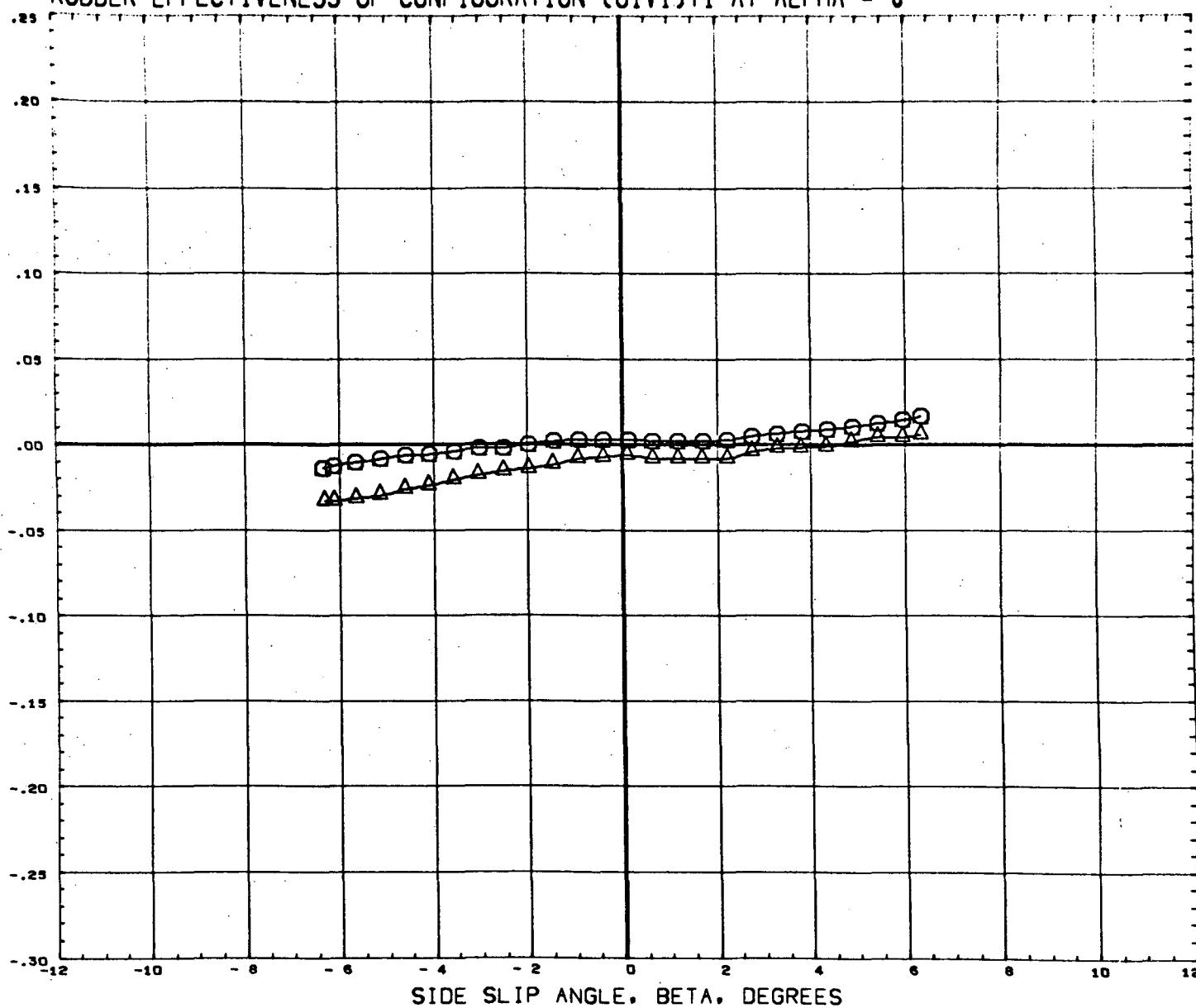


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD7442)	Q	MDAC S-222 COMPOSITE (T-CG) (O1V1) T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7446)	A	MDAC S-222 COMPOSITE (T-CG) (O1V1) T1	0.000	0.000	0.000	10.000	LREF	609.5004 IN.

BREF 882.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

RUDDER EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

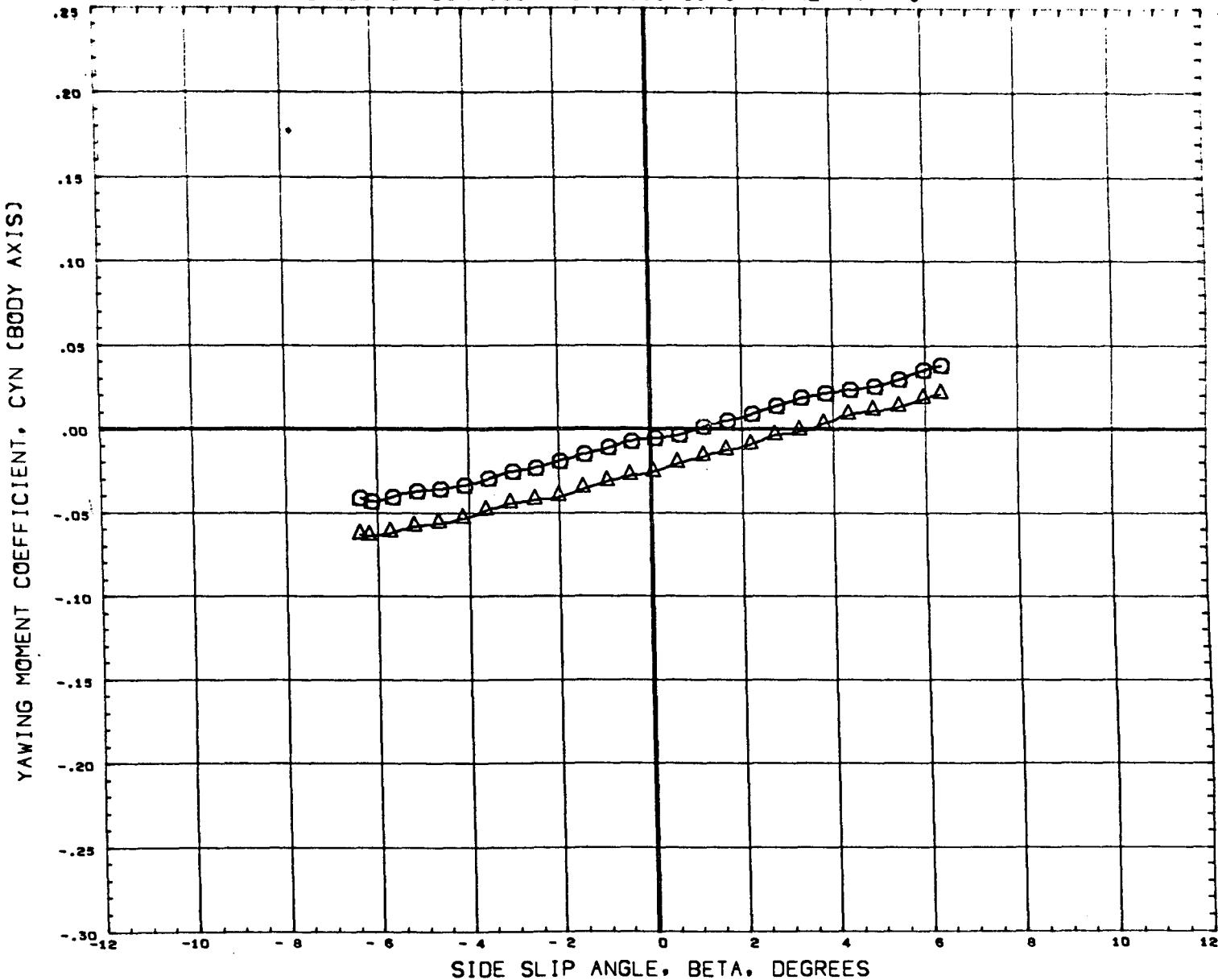


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
(RD7442)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7446)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH .90

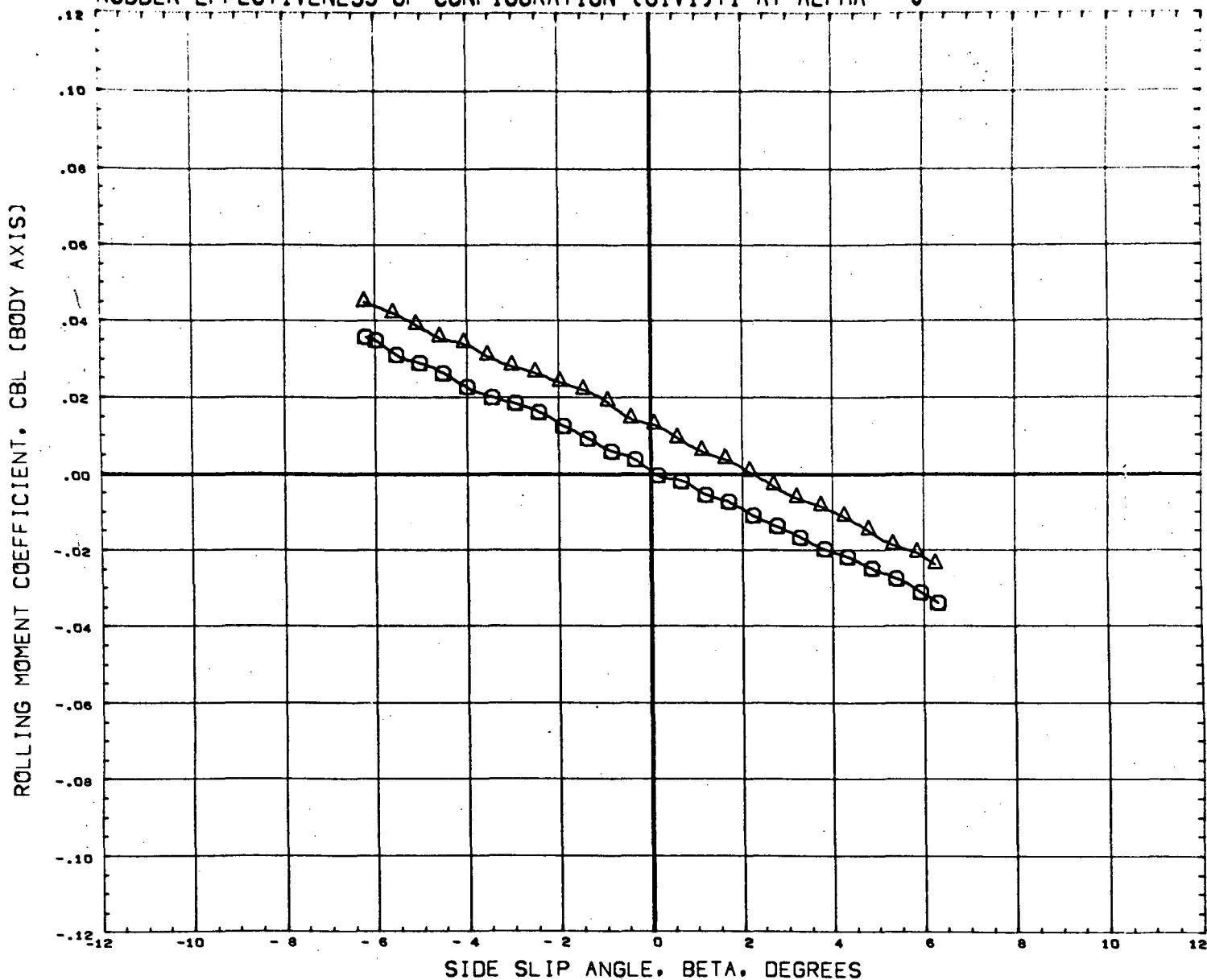
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RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(RD7442)	Q	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7446)	△	MDAC S-222 COMPOSITE (T-CG) (O1V1)T1	0.000	0.000	0.000	10.000	LREF	609.5004 IN.
							BREF	882.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7442)	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7446)	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

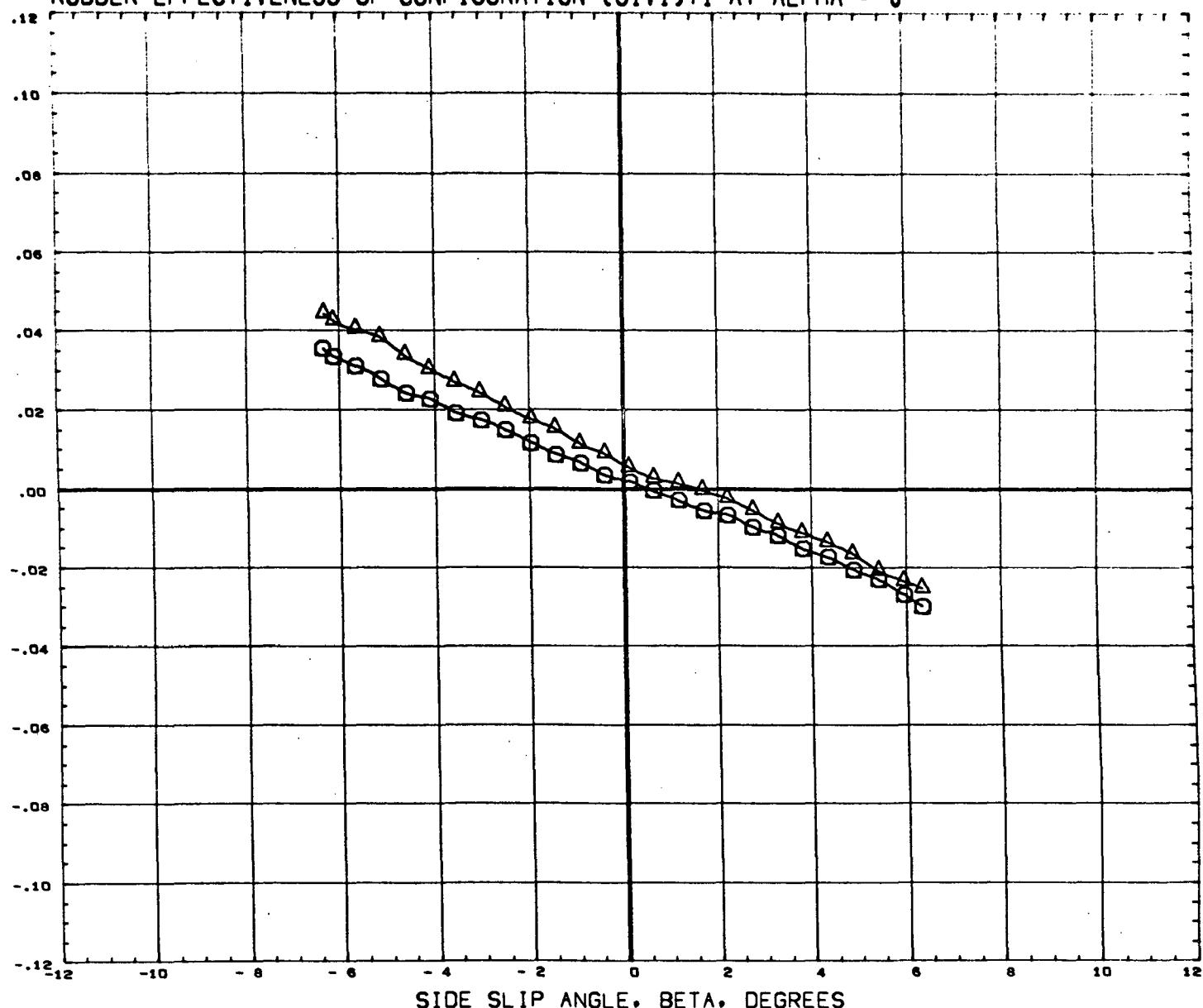
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RUDDER EFFECTIVENESS OF CONFIGURATION (OIV1)T1 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



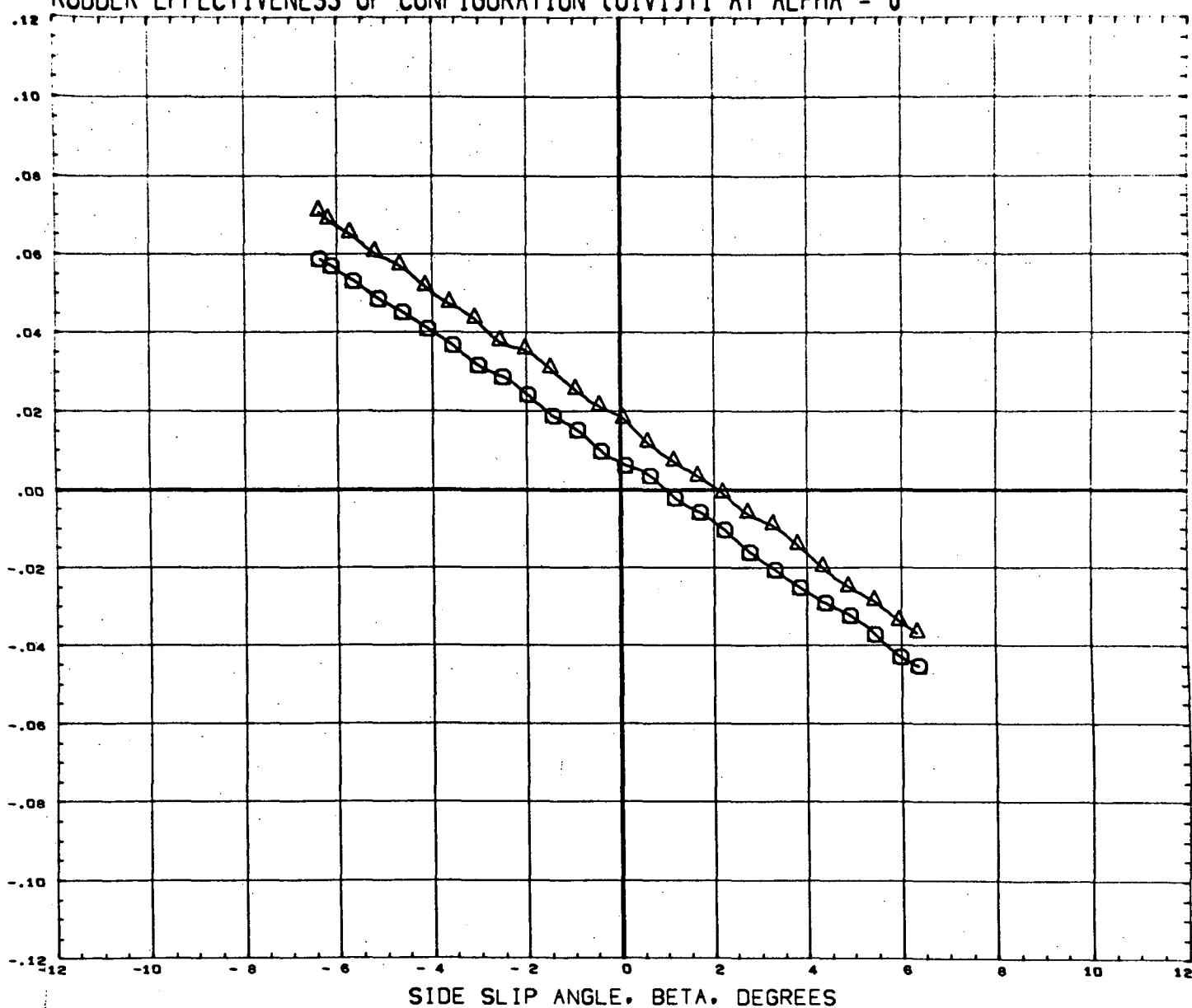
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(FD7442) MDAC S-222 COMPOSITE(T-CG) (OIV1)T1
 (FD7446) MDAC S-222 COMPOSITE(T-CG) (OIV1)T1

ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	10.000	LREF 609.5004 IN.
				BREF 682.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)

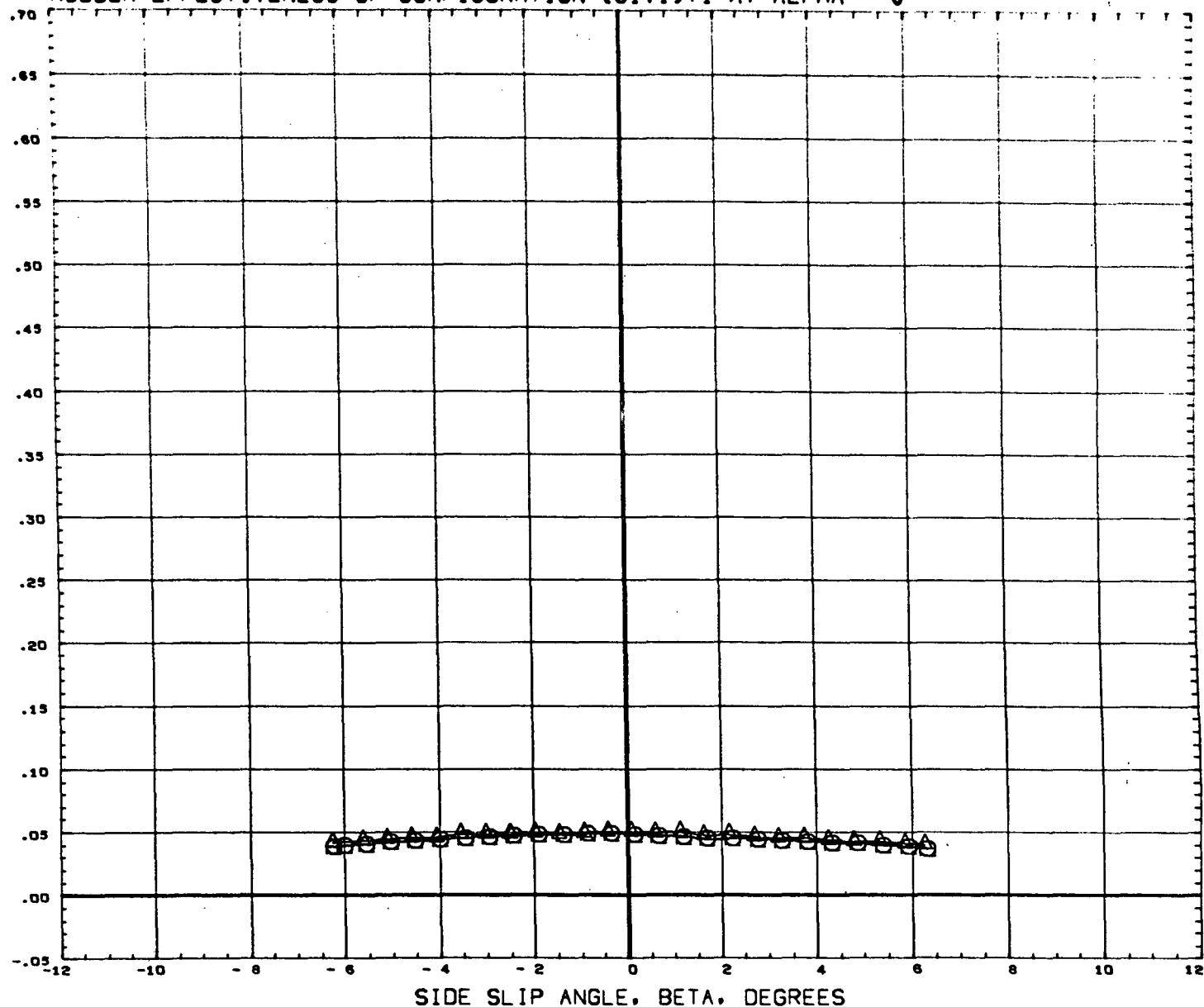


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7442) MDAC S-222 COMPOSITE(T-CG) (O1V1)T1
 (RD7446) MDAC S-222 COMPOSITE(T-CG) (O1V1)T1

ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	10.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

RUDDER EFFECTIVENESS OF CONFIGURATION (OIV1)T1 AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF



SIDE SLIP ANGLE, BETA, DEGREES

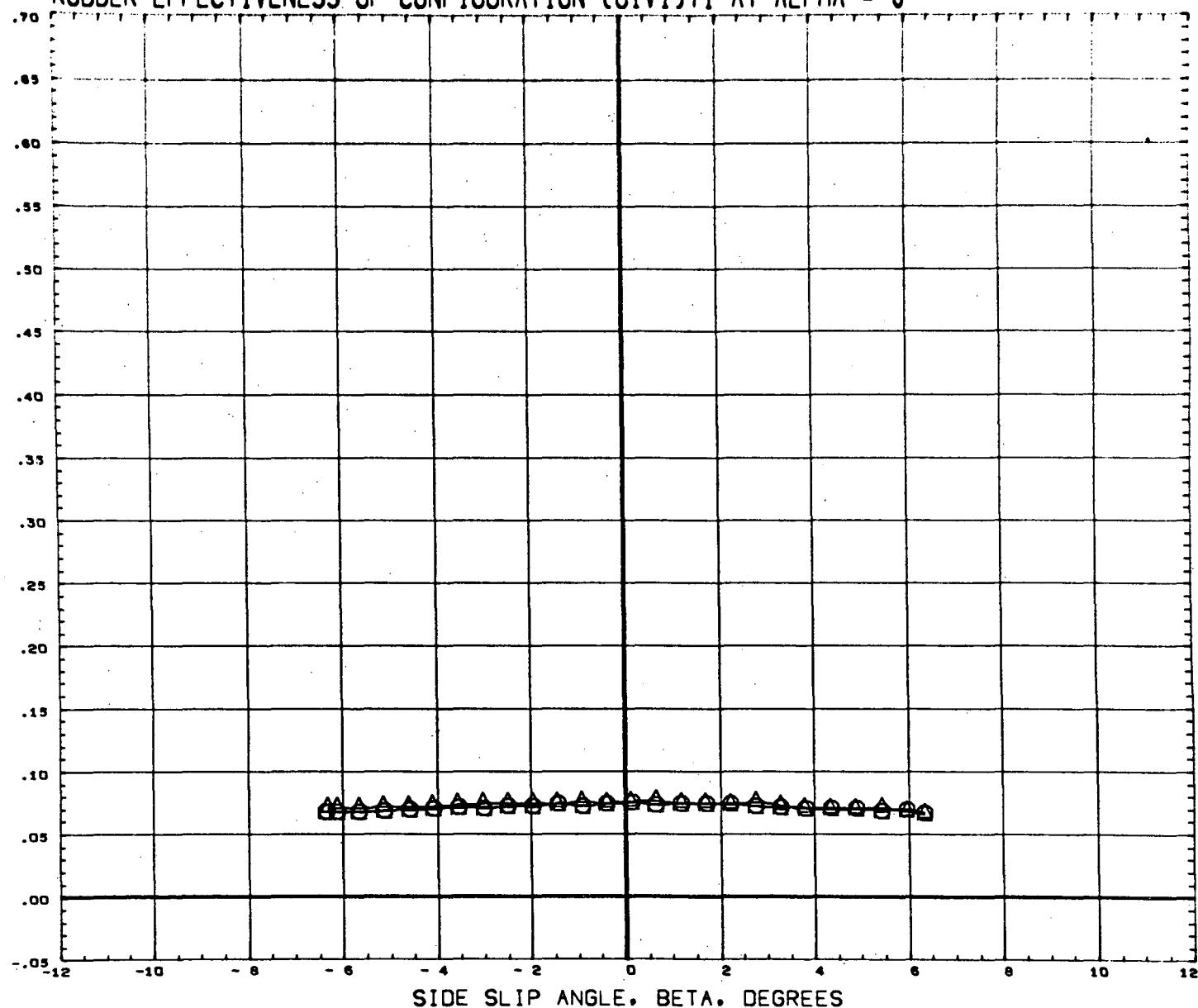
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7442)	○	MDAC S-222 COMPOSITE (T-CG) (OIV1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7446)	△	MDAC S-222 COMPOSITE (T-CG) (OIV1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

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RUDDER EFFECTIVENESS OF CONFIGURATION (OIV1)T1 AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7442)	Q	MDAC S-222 COMPOSITE(T-CG) (OIV1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SO.FT.
(RD7446)	Q	MDAC S-222 COMPOSITE(T-CG) (OIV1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

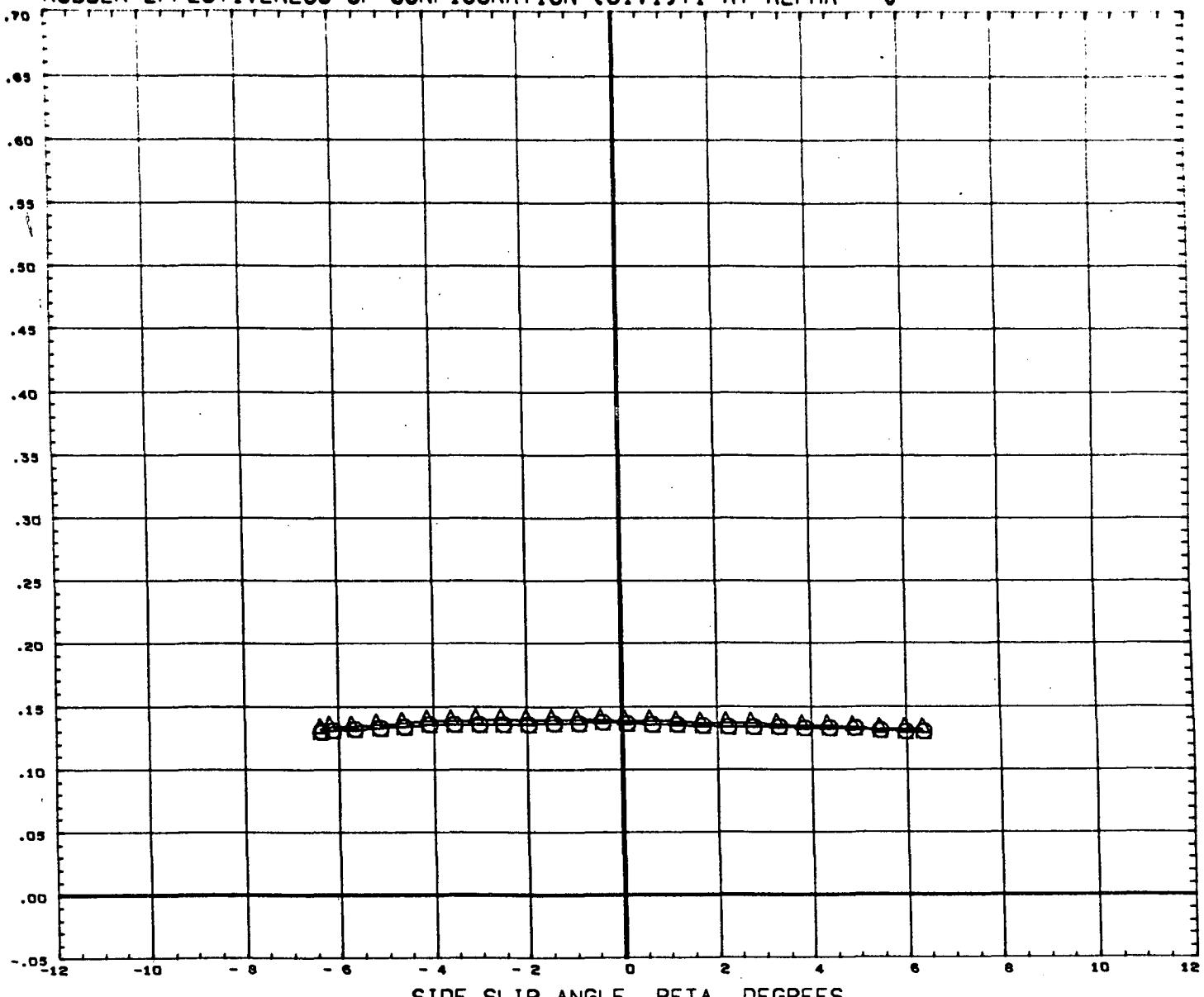
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RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT. CAF



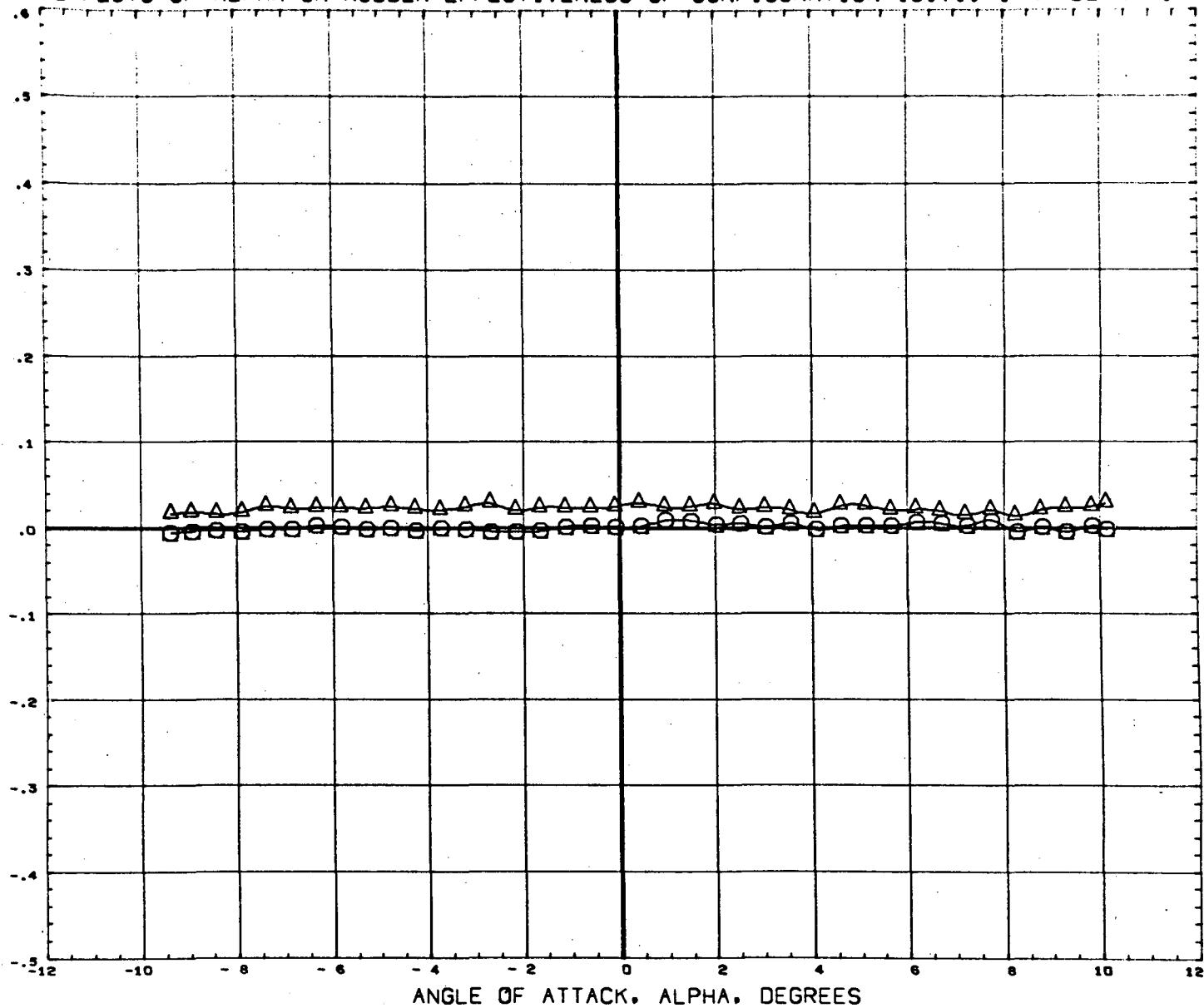
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RD7442) Q MDAC S-222 COMPOSITE (T-CG) (O1V1) T1
 (RD7446) Δ MDAC S-222 COMPOSITE (T-CG) (O1V1) T1

ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
0.000	0.000	0.000	10.000	LREF	609.5004 IN.
				BREF	882.0004 IN.
				XMRP	557.0004 IN.
				YMRP	0.0000 IN.
				ZMRP	200.0004 IN.
				SCALE	0.0060

EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT BETA = 0

LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7441)	Q	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7445)	W	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

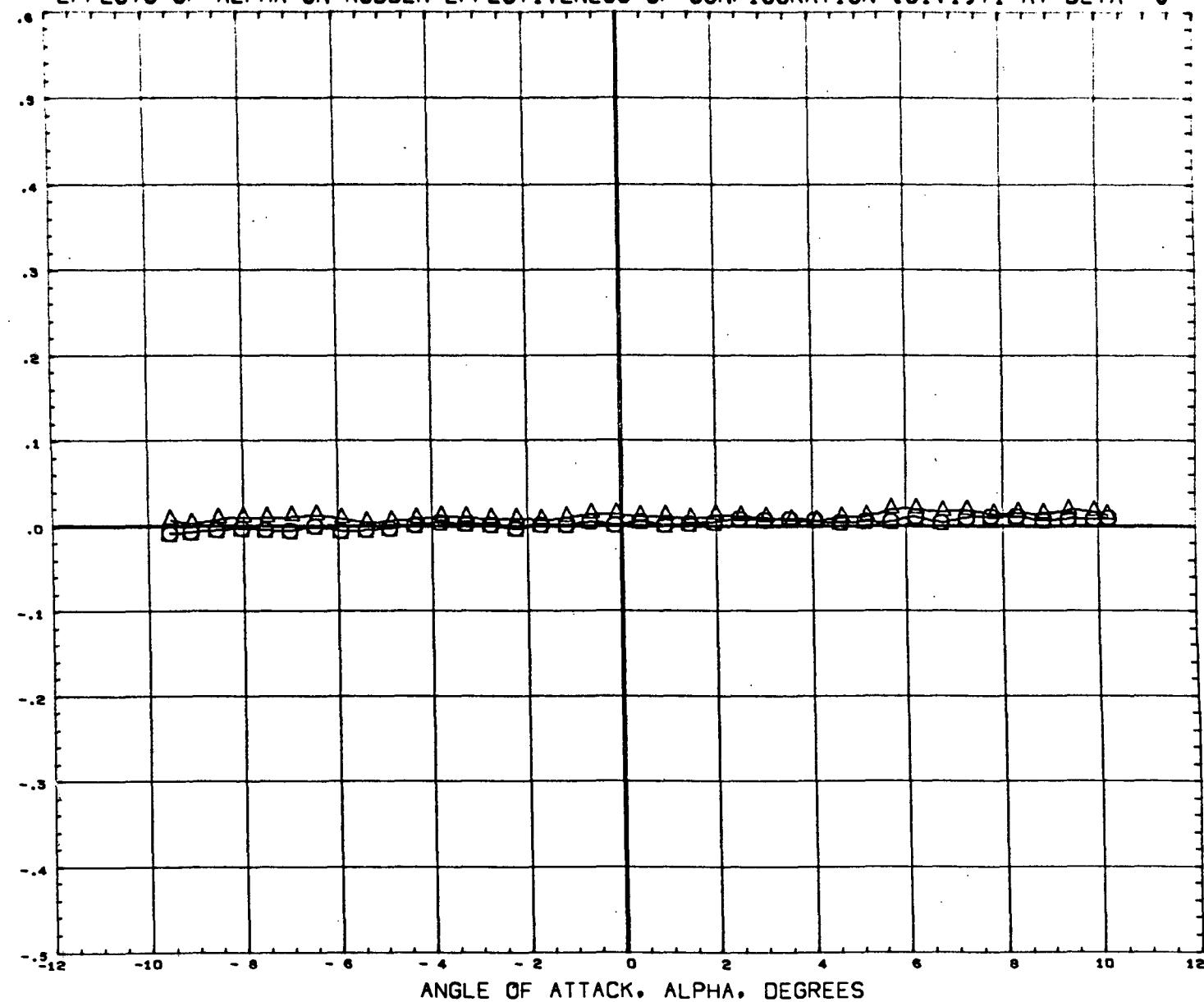
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EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (OIV1)T1 AT BETA = 0

LATERAL FORCE COEFFICIENT, CY

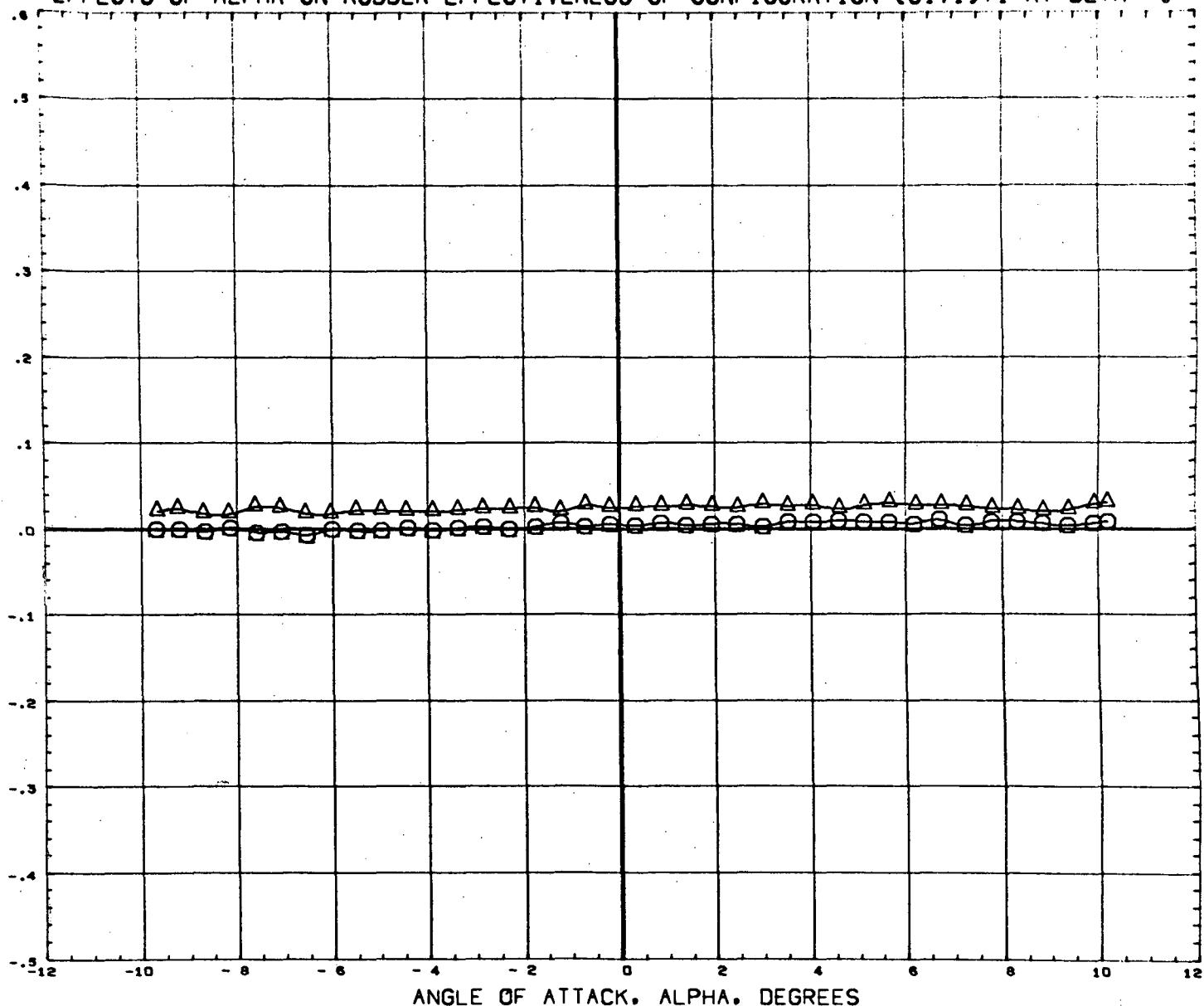


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7441) Q MDAC S-222 COMPOSITE (T-CG) (OIV1) T1
 (RD7445) A MDAC S-222 COMPOSITE (T-CG) (OIV1) T1

BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	10.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT BETA = 0

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7441)	Q	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7445)	△	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

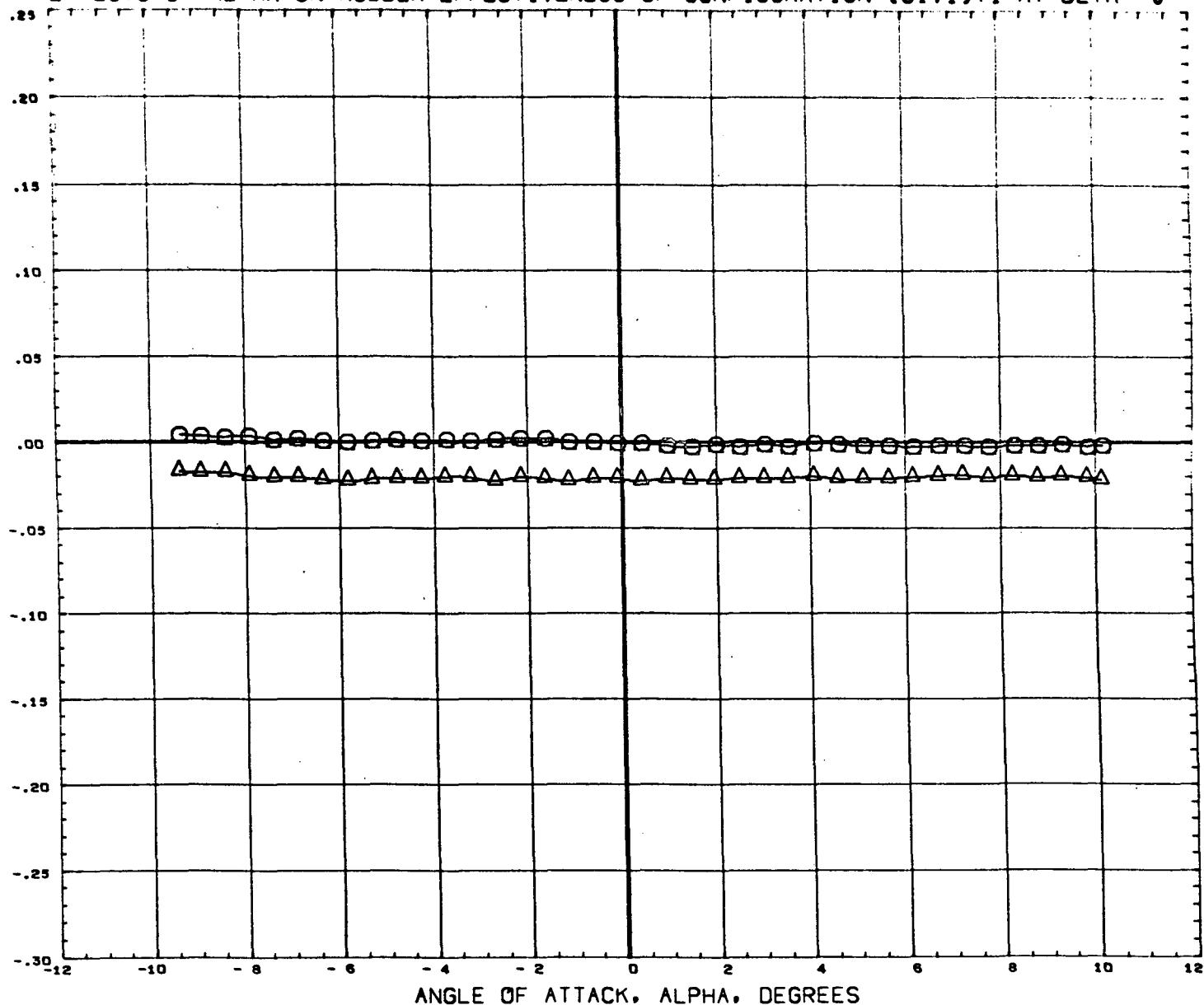
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EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
		0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7441)	MDAC S-222 COMPOSITE (T-CG) (01V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN.
(RD7445)	MDAC S-222 COMPOSITE (T-CG) (01V1)T1					BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

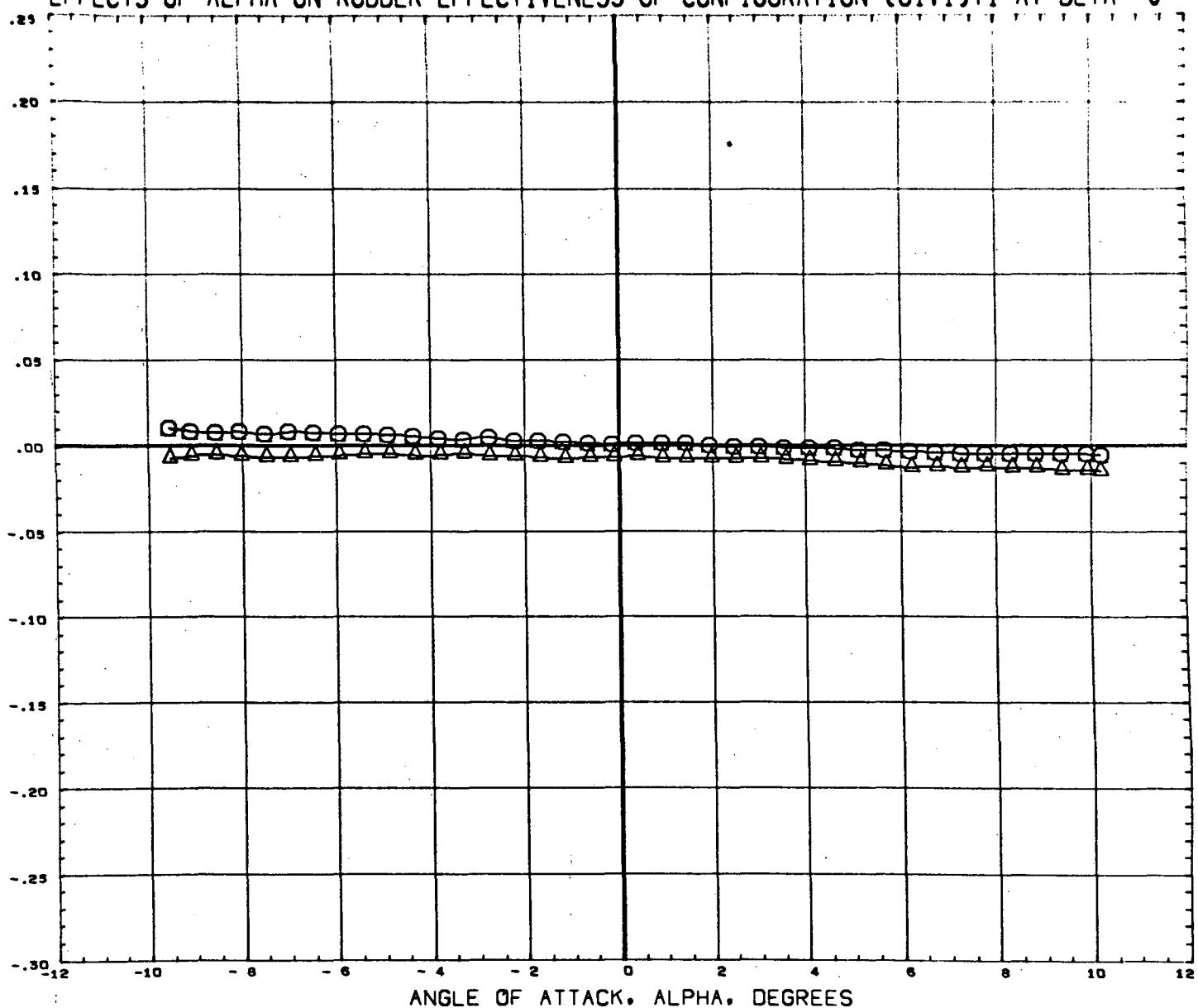
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EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT BETA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7441)	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7445)	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

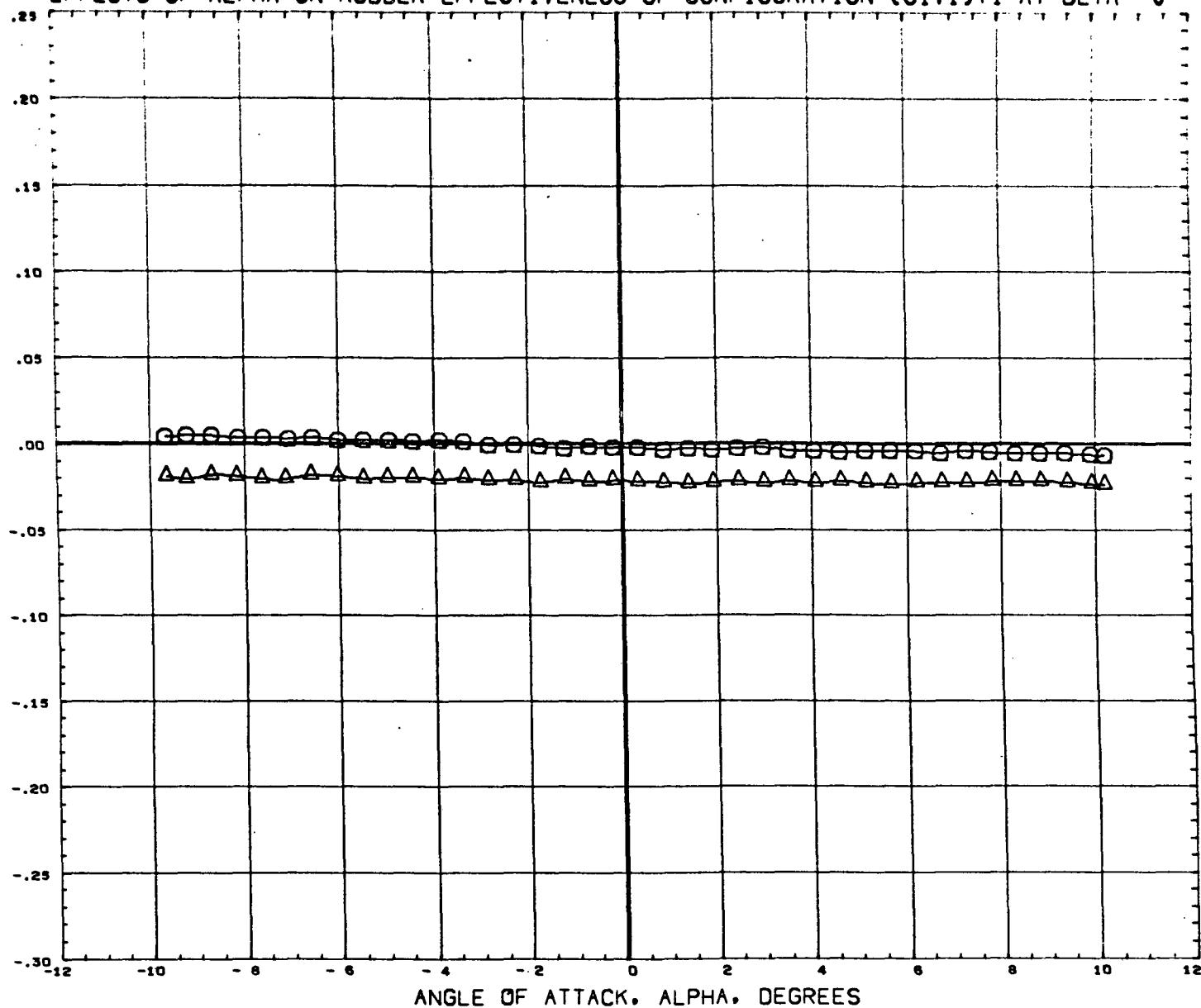
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EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0

YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)

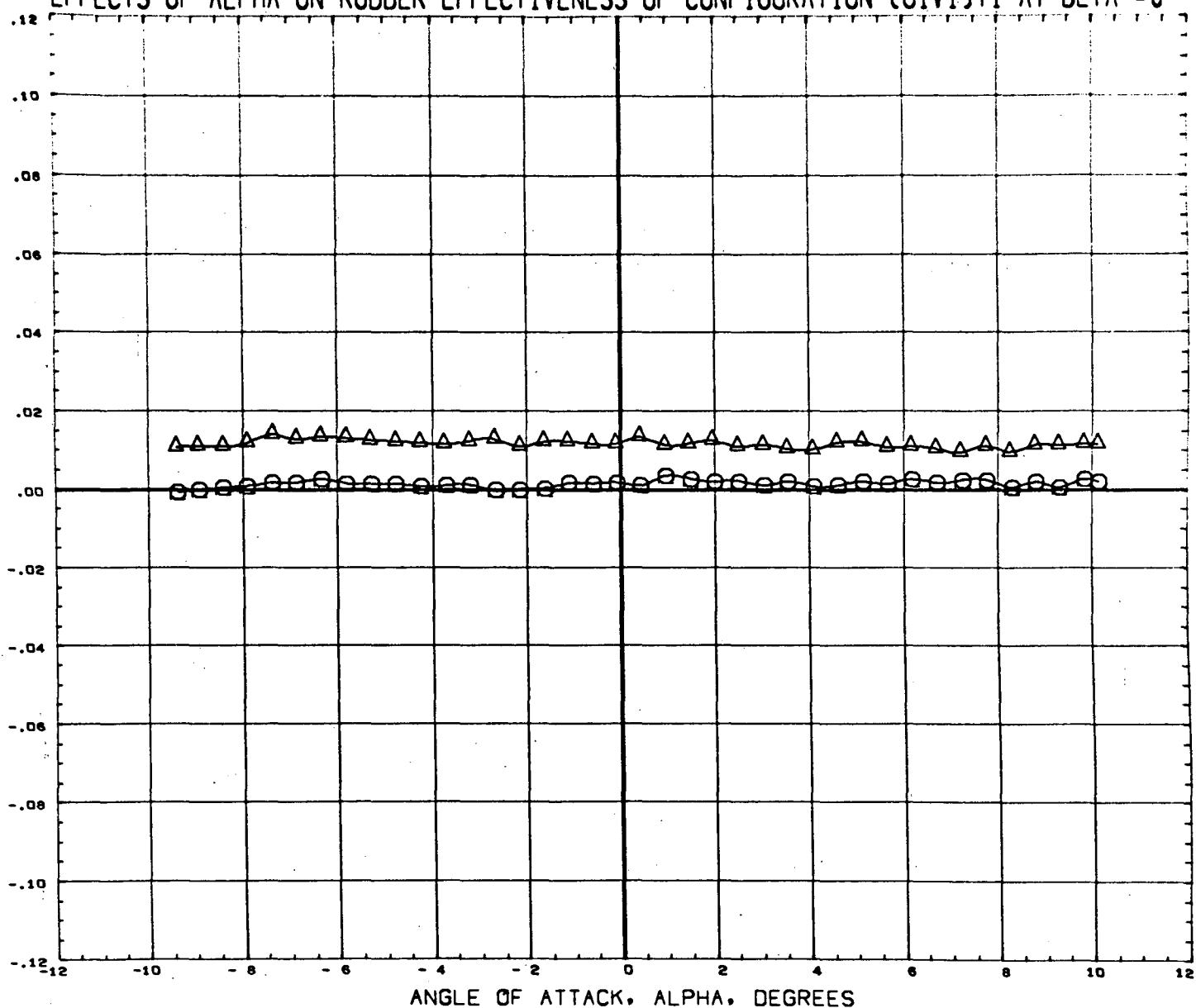


ANGLE OF ATTACK. ALPHA. DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(RD7441) Q	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7445) Δ	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 862.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (O1V1)T1 AT BETA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7441)	Q	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7445)	Q	MDAC S-222 COMPOSITE(T-CG) (O1V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH

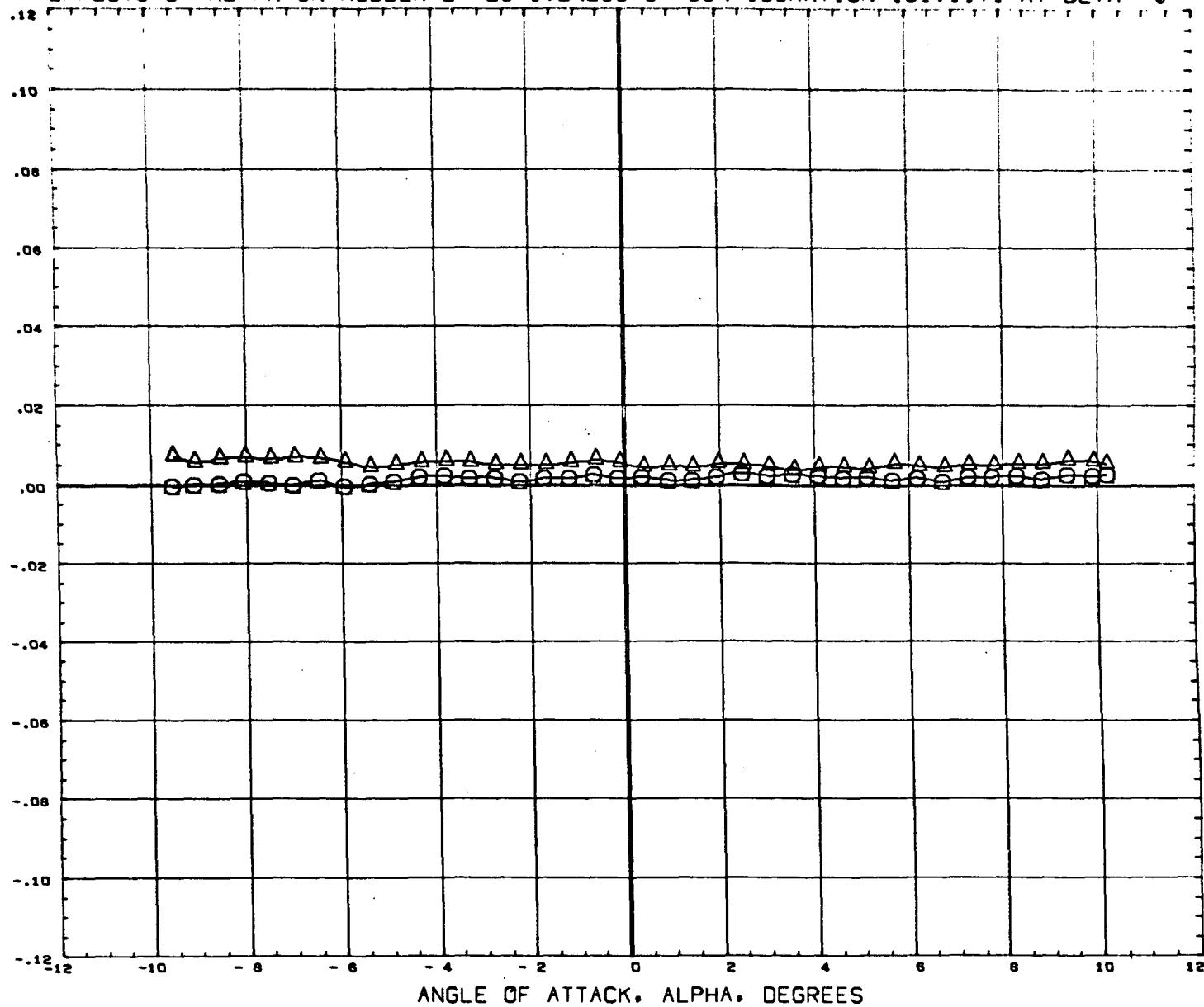
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EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



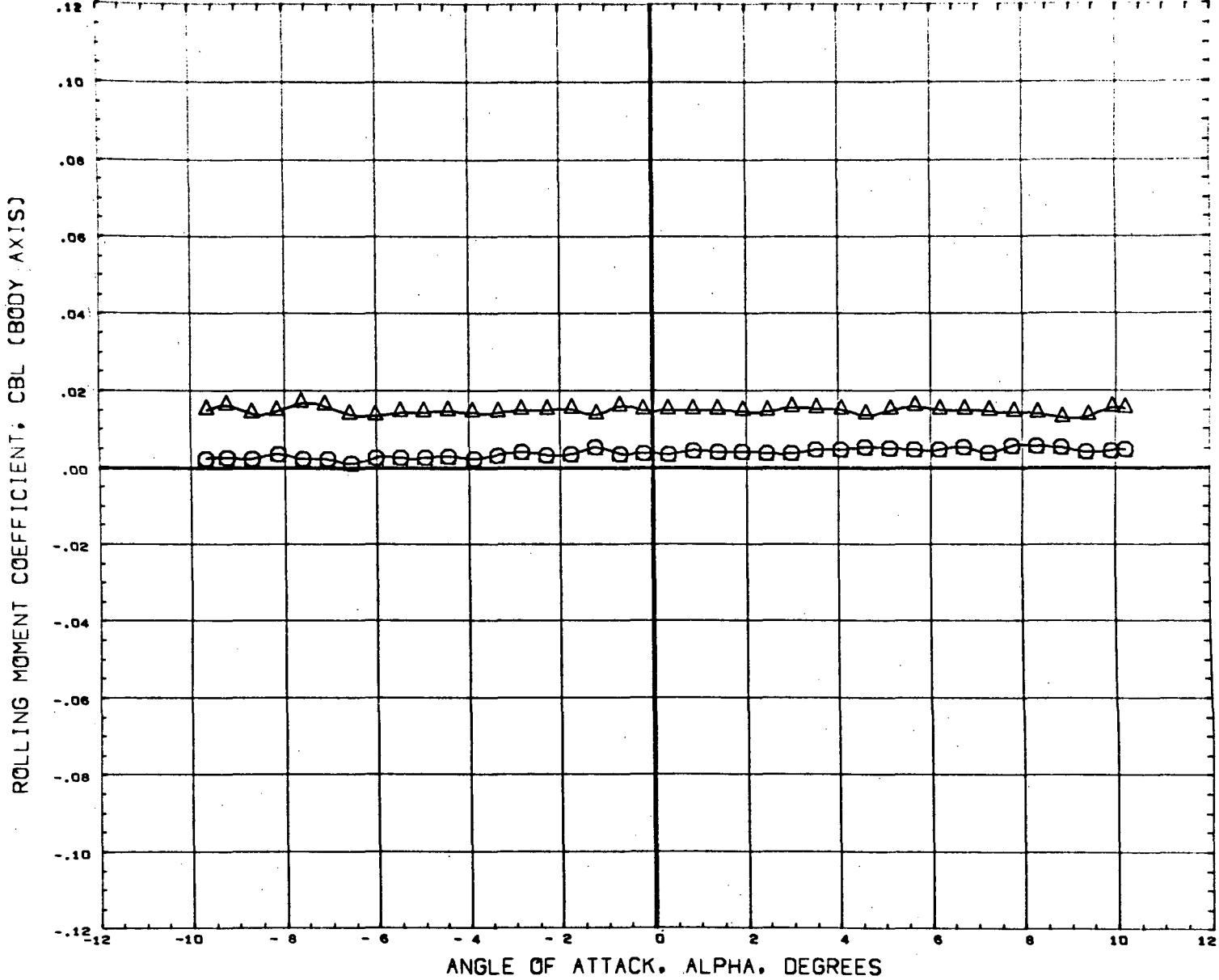
DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7441)	Q	MDAC S-222 COMPOSITE (T-CG)	(01V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7445)	A	MDAC S-222 COMPOSITE (T-CG)	(01V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

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EFFECTS OF ALPHA ON RUDDER EFFECTIVENESS OF CONFIGURATION (01V1)T1 AT BETA = 0



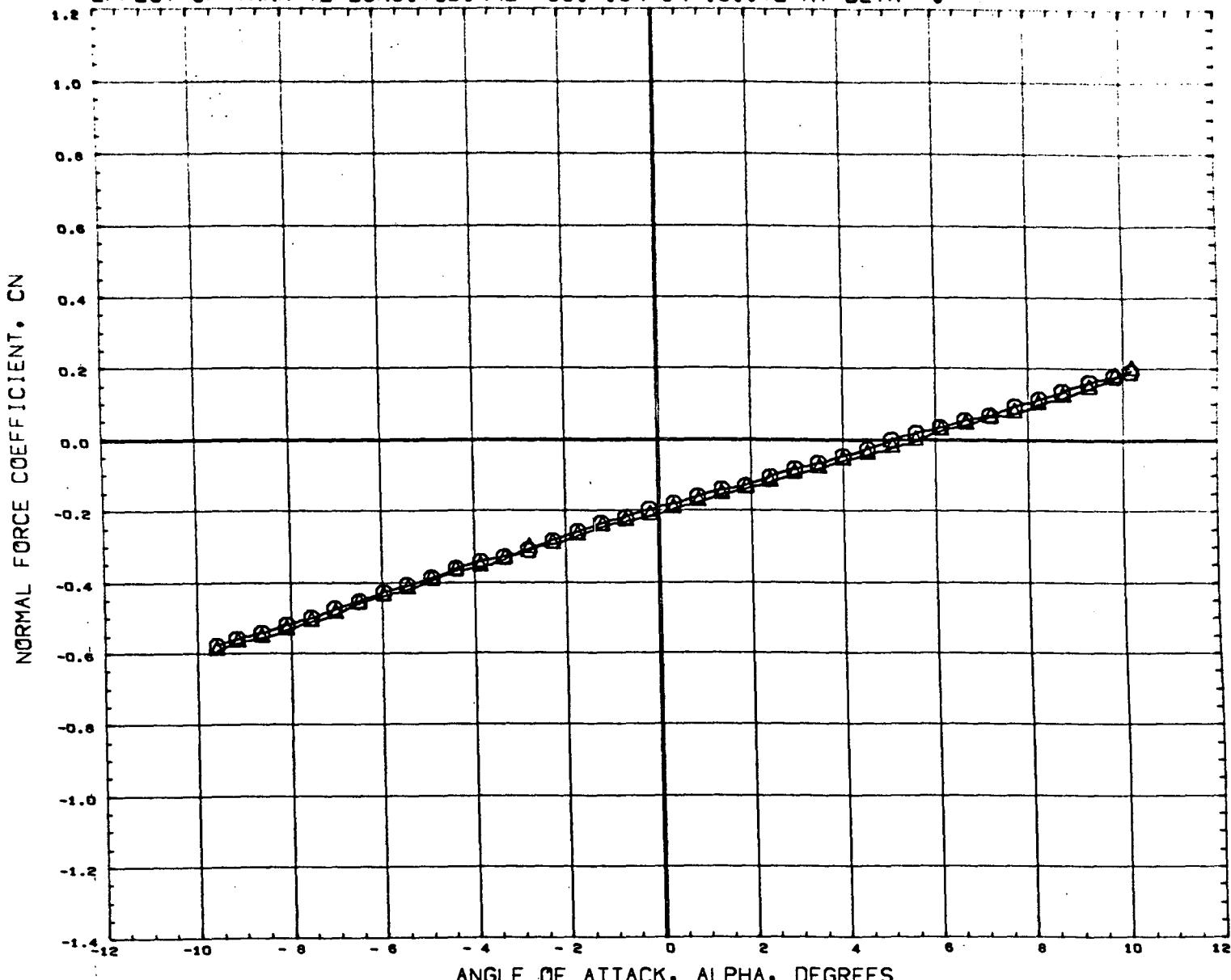
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7441)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7445)	MDAC S-222 COMPOSITE(T-CG) (01V1)T1	0.000	0.000	0.000	10.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.10

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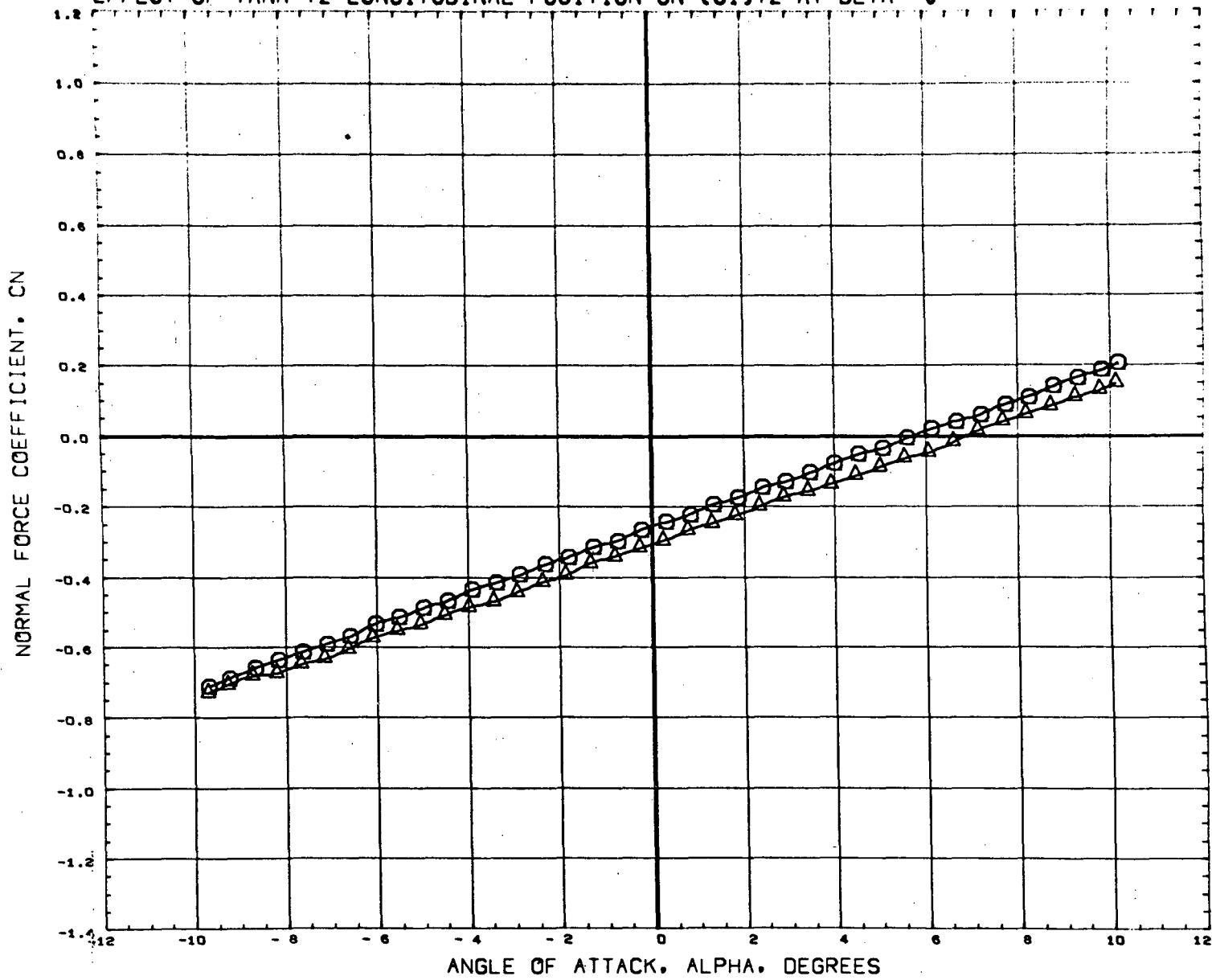
EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 AT BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7470) Q MDAC S-222 COMPOSITE (T-CG) (O1)T2
 (CD7472) A MDAC S-222 COMPOSITE (T-CG) (O1)T2A

BETA	ELEVTR	AIRLON	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 AT BETA = 0



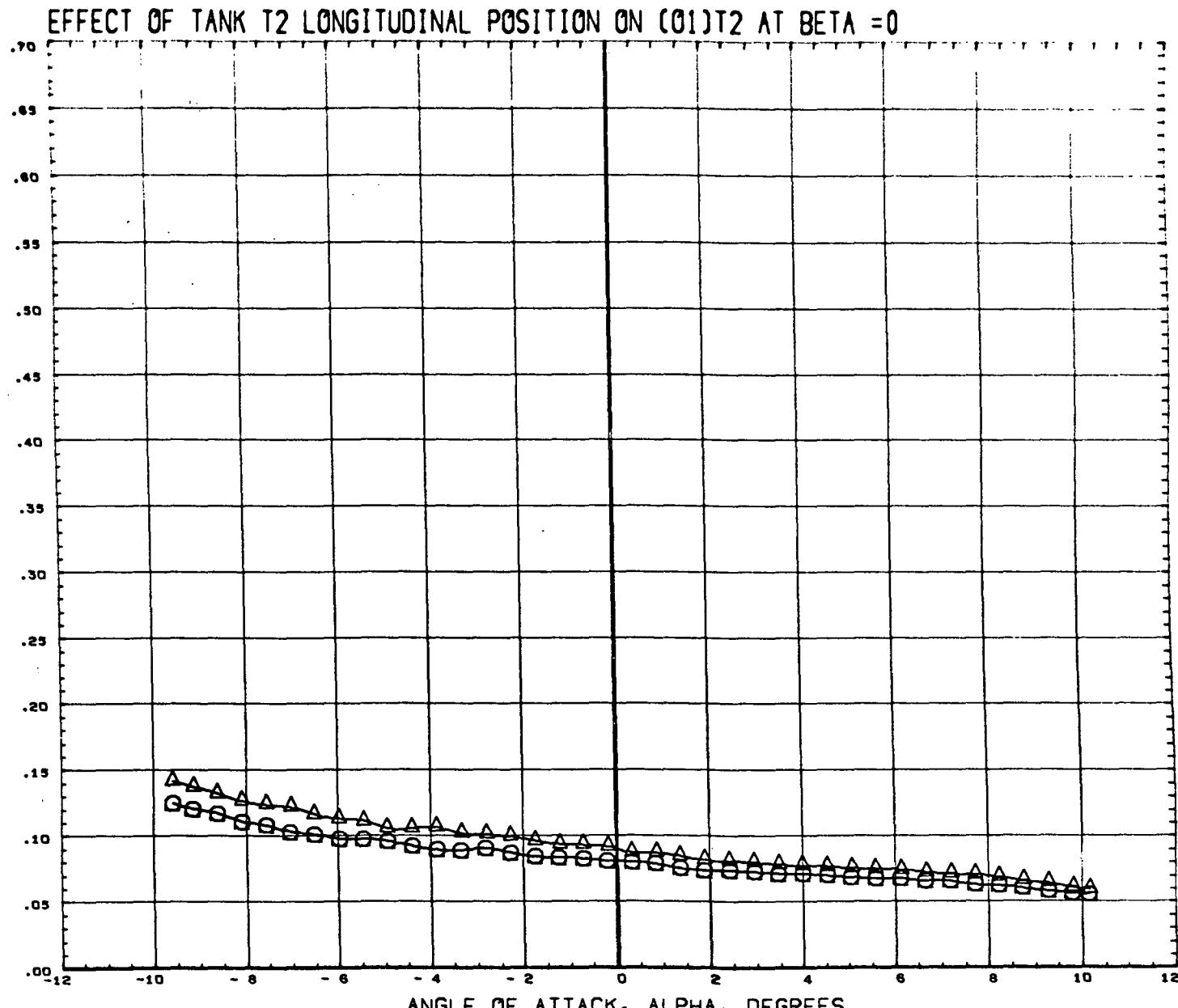
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	IN. SQ.FT.
(CD7470)	MDAC S-222 COMPOSITE(T-CG) (O1)T2	0.000	0.000	0.000	0.000	LREF	609.5004 IN.
(CD7472)	MDAC S-222 COMPOSITE(T-CG) (O1)T2A	0.000	0.000	0.000	0.000	BREF	662.0004 IN.
						XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH

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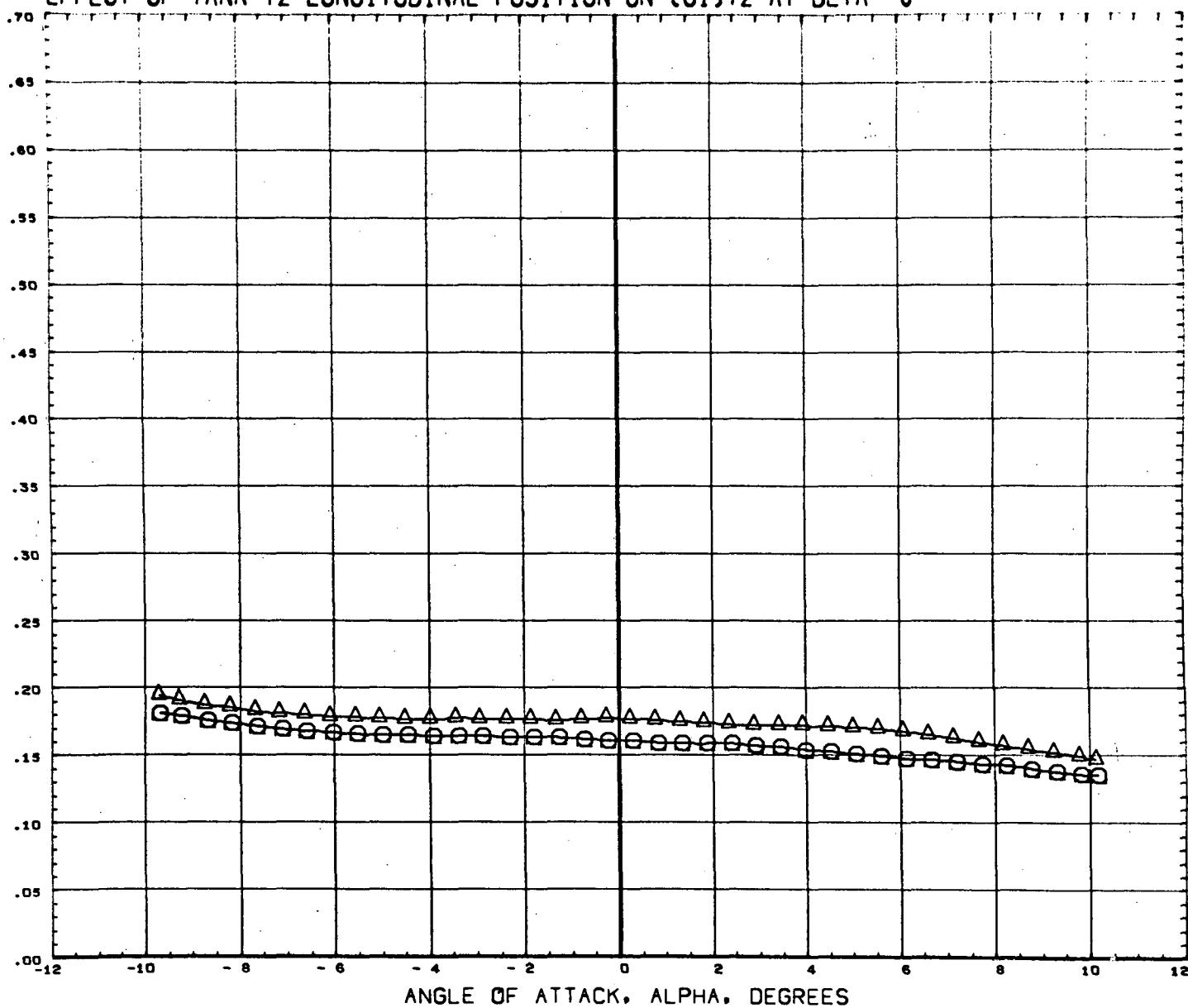
AXIAL FORCE COEFFICIENT, CA



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
(CD7470)	MDAC S-222 COMPOSITE (T-CG) (O1)T2	0.000	0.000	0.000	0.000	SREF 3155.304D SQ.FT.
(CD7472)	MDAC S-222 COMPOSITE (T-CG) (O1)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0

AXIAL FORCE COEFFICIENT, CA



ANGLE OF ATTACK, ALPHA, DEGREES

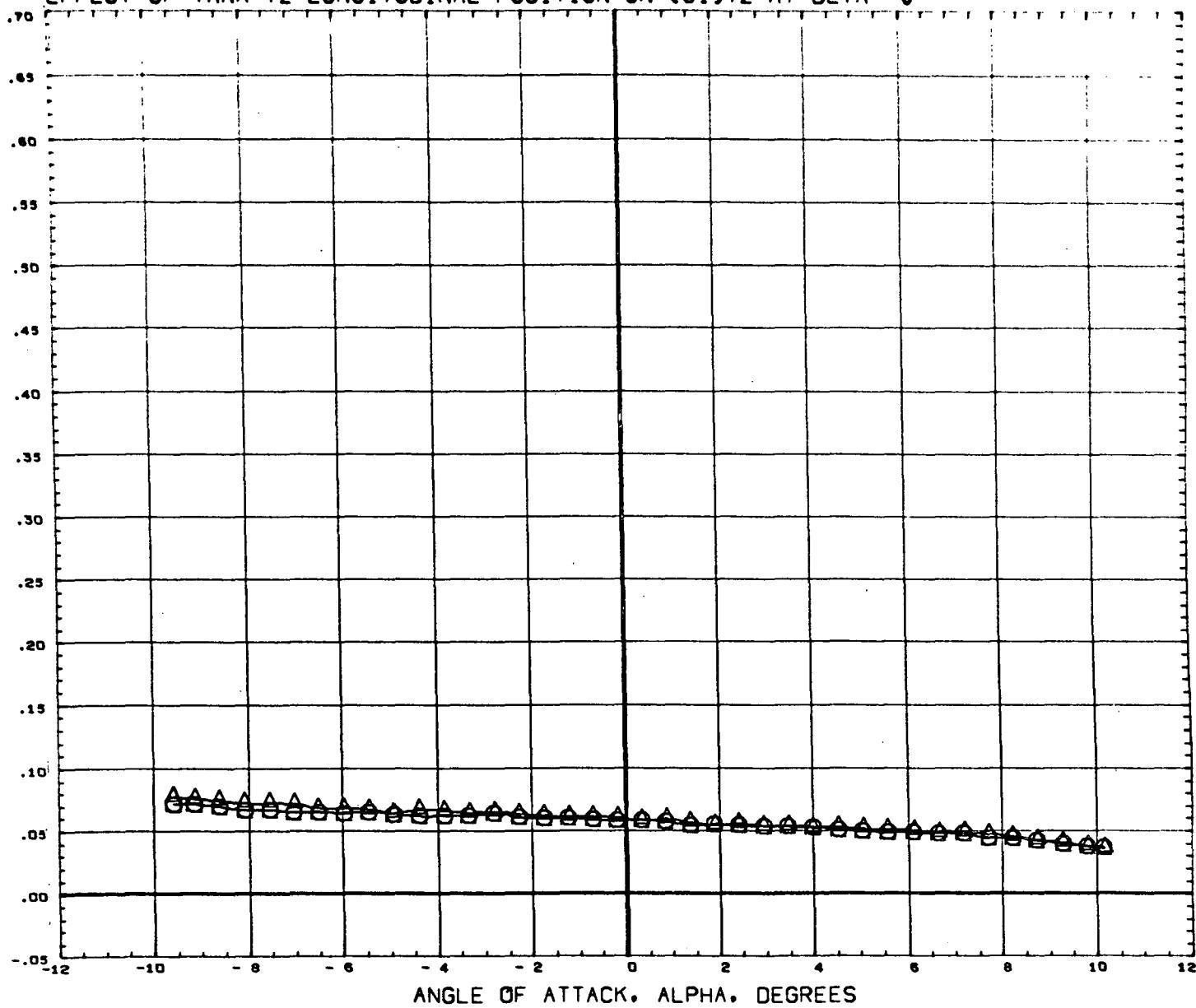
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7470)	MDAC S-222 COMPOSITE (T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7472)	MDAC S-222 COMPOSITE (T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.09

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EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0

FOREBODY AXIAL FORCE COEFFICIENT. CAF

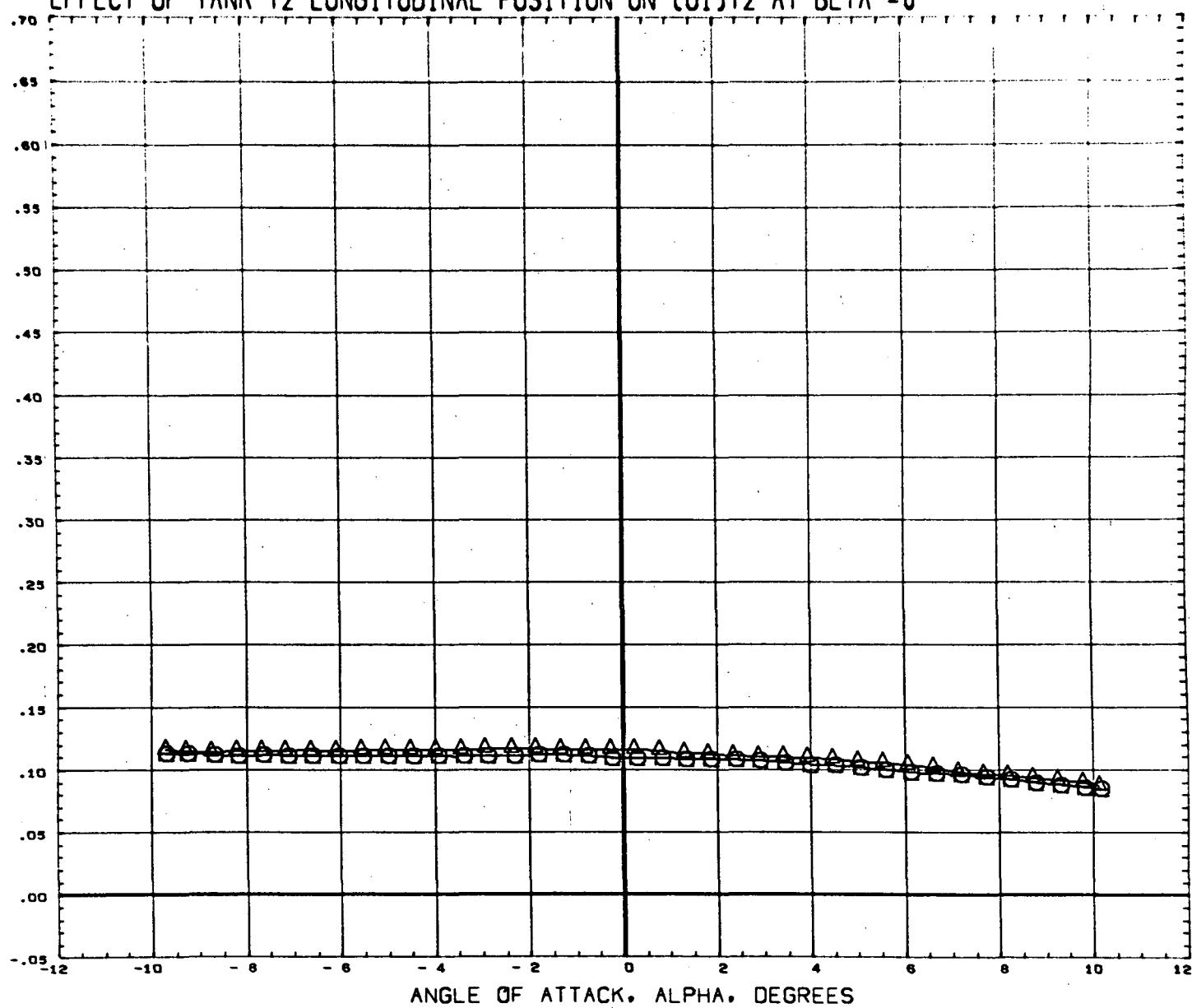


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7470) MDAC S-222 COMPOSITE (T-CG) (01) T2
 (CD7472) MDAC S-222 COMPOSITE (T-CG) (01) T2A

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 AT BETA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF



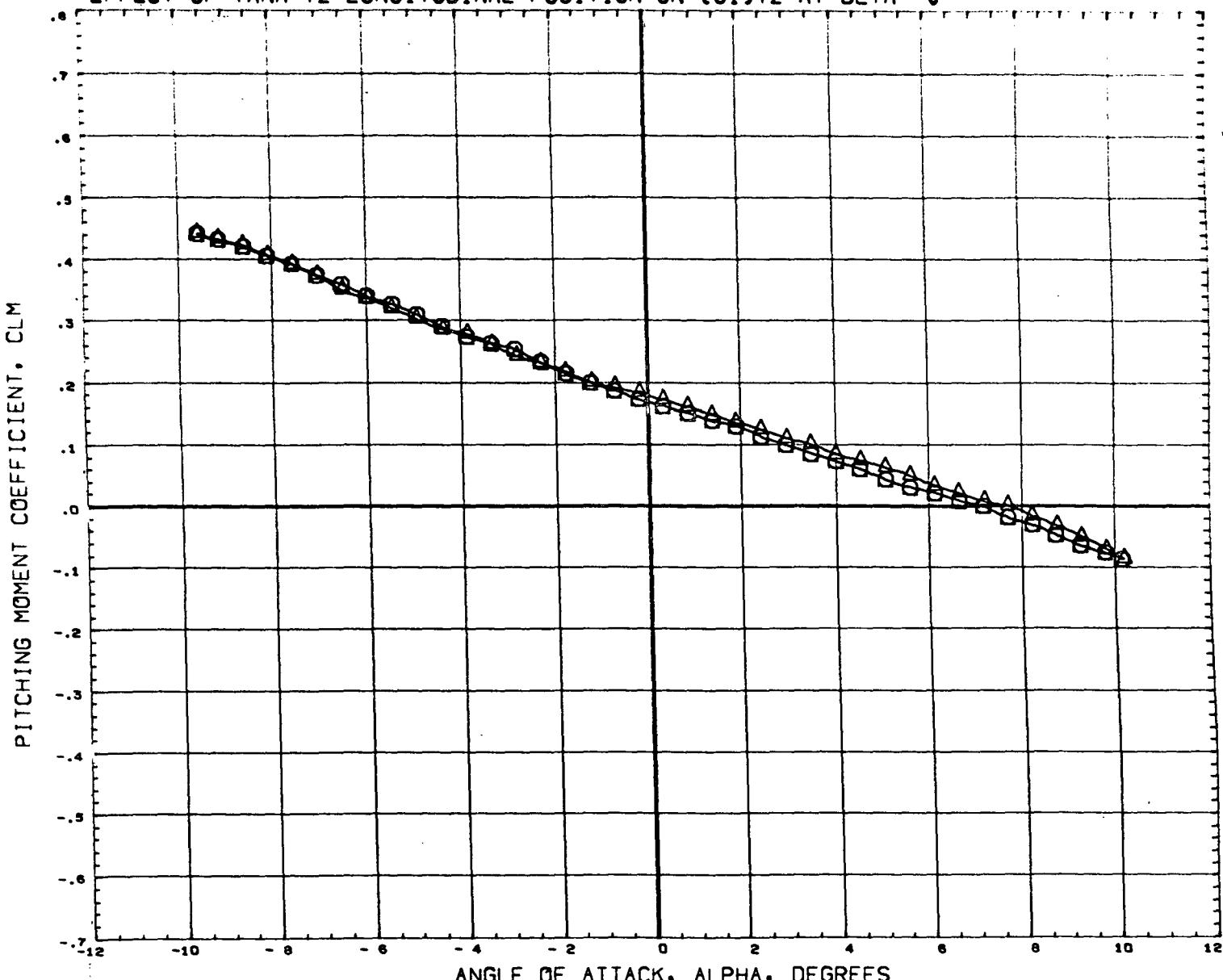
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(CD7470)	O	MDAC S-222 COMPOSITE(T-CG) (O1)T2	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7472)	A	MDAC S-222 COMPOSITE(T-CG) (O1)T2A	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

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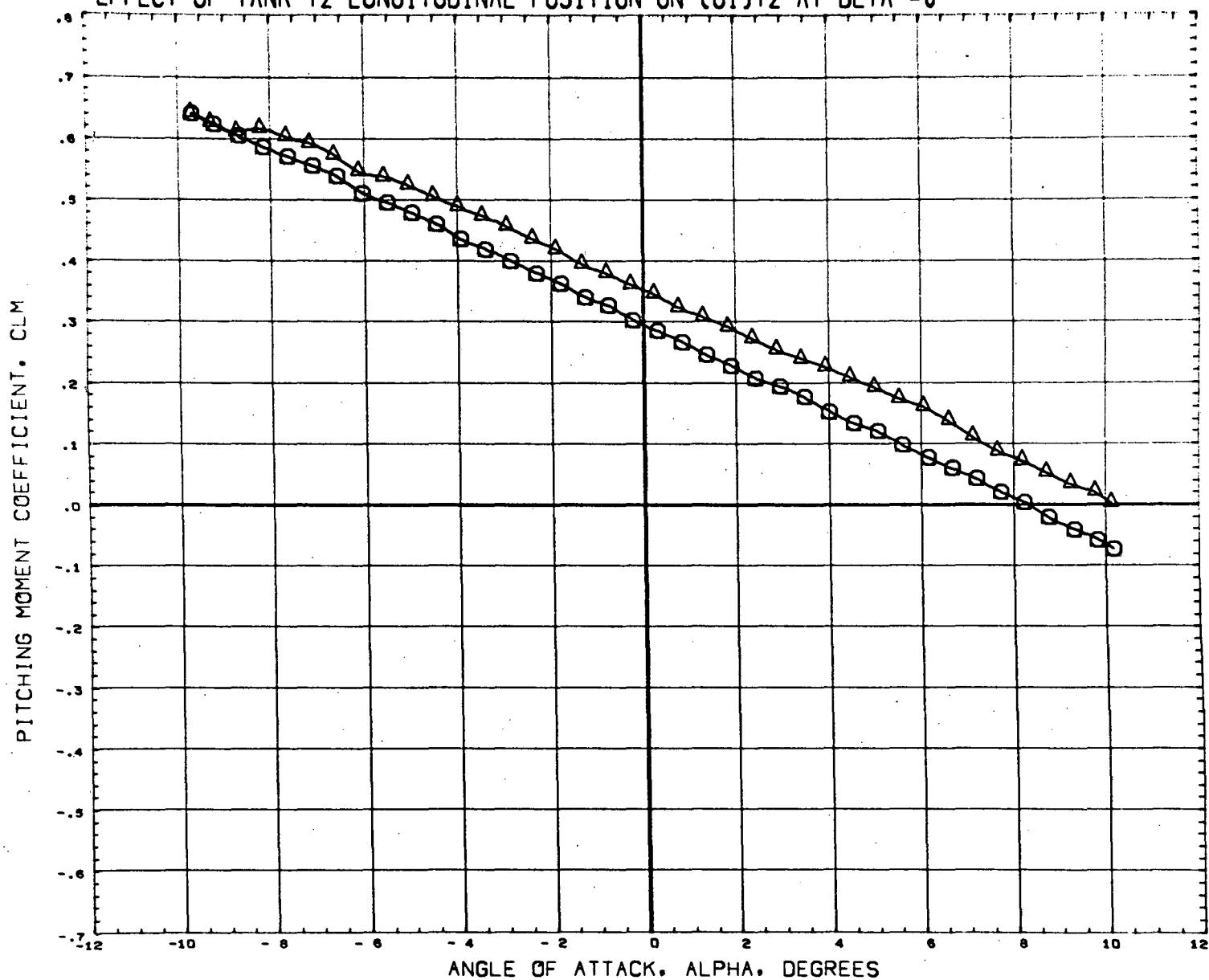
PAGE : 417

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7470)	MDAC S-222 COMPOSITE (T-CG), (01)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7472)	MDAC S-222 COMPOSITE (T-CG), (01)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0

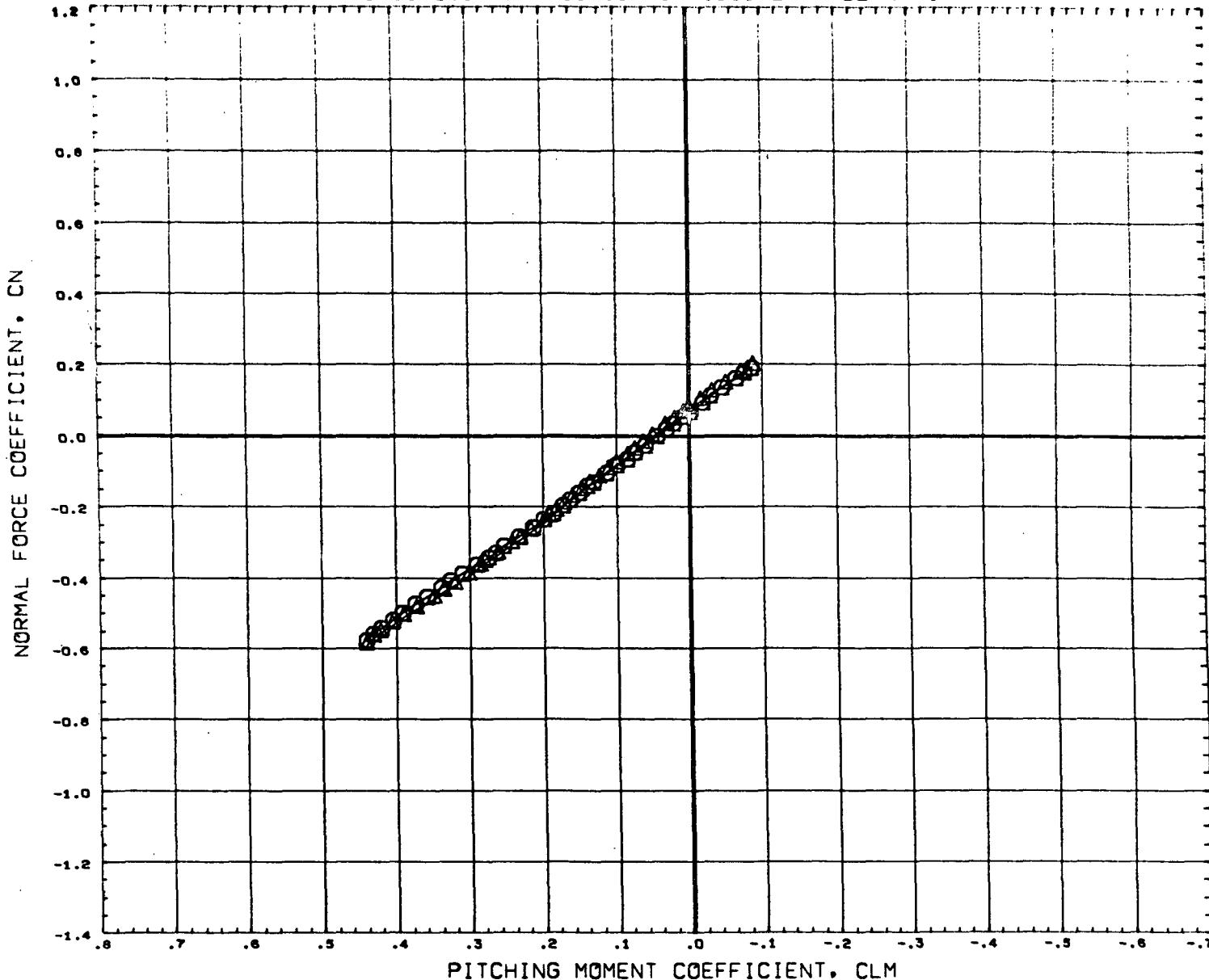


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CDT470)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CDT472)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.09

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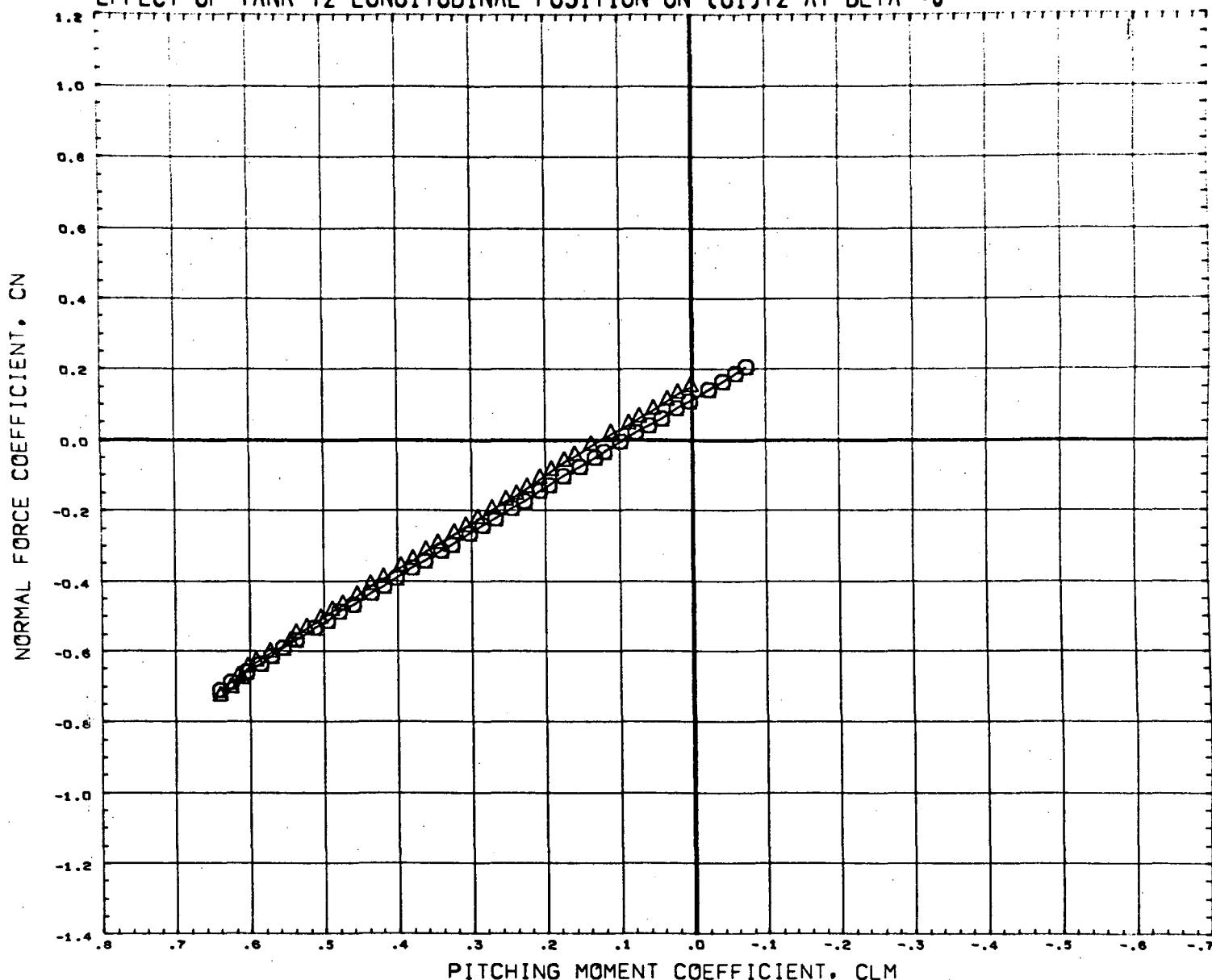
EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 AT BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7470) Q MDAC S-222 COMPOSITE(T-CG) (O1)T2
 (CD7472) A MDAC S-222 COMPOSITE(T-CG) (O1)T2A

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0



PITCHING MOMENT COEFFICIENT, CLM

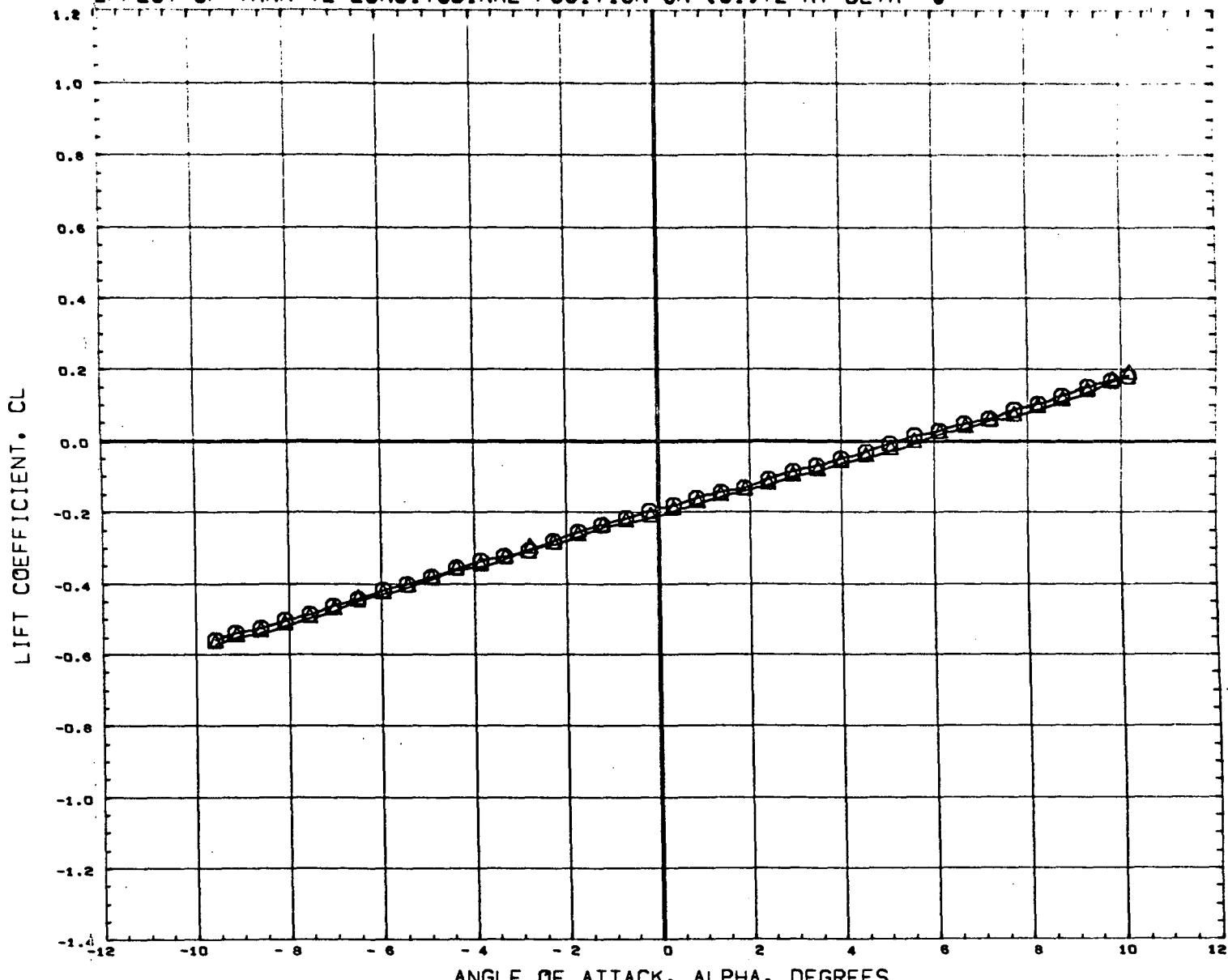
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7470)	MDAC S-222 COMPOSITE(T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7472)	MDAC S-222 COMPOSITE(T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH

1.09

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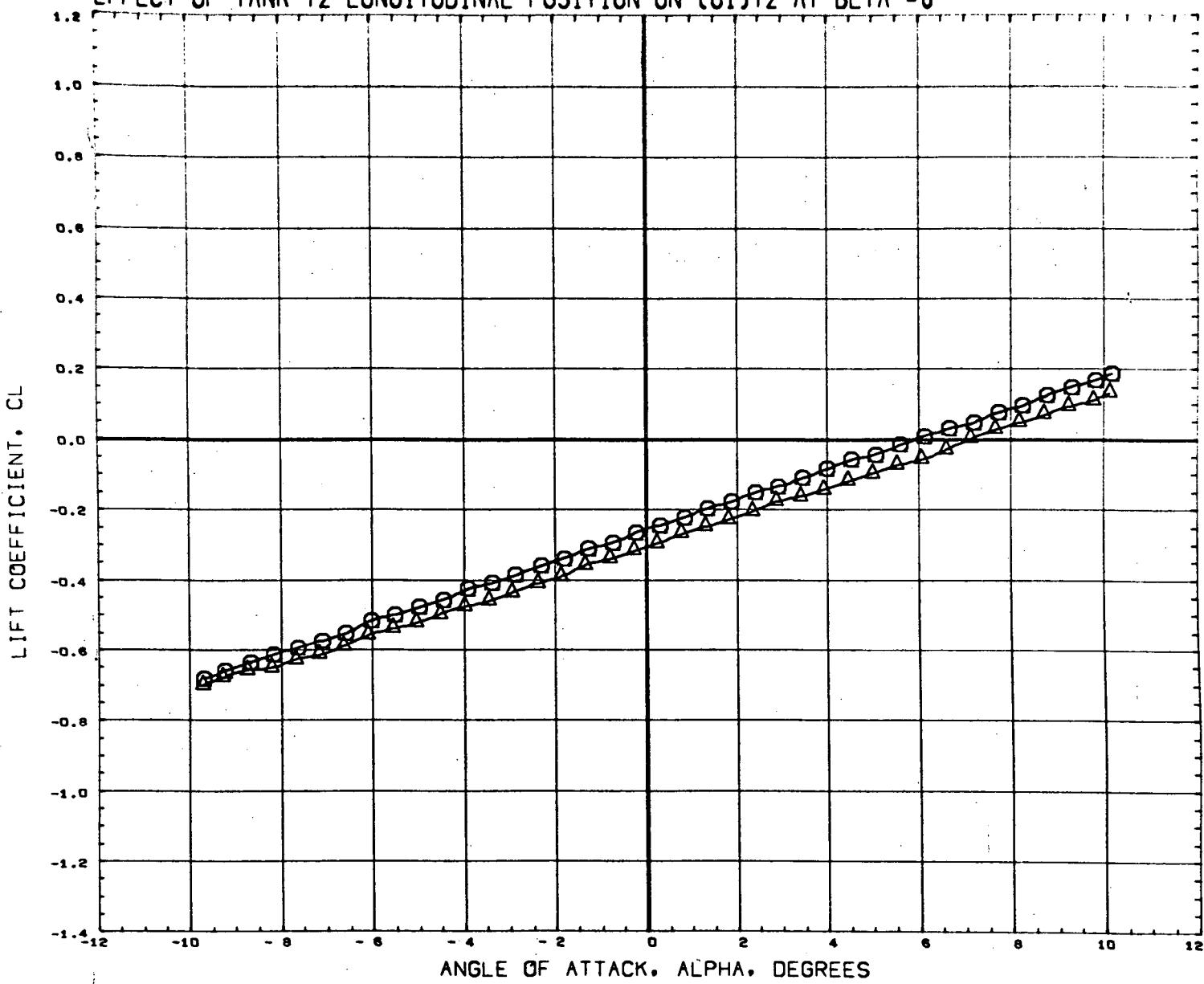
EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
(CD7470)	Q	MDAC S-222 COMPOSITE (T-CG)	(01)T2	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7472)	A	MDAC S-222 COMPOSITE (T-CG)	(01)T2A	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

BREF 882.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0



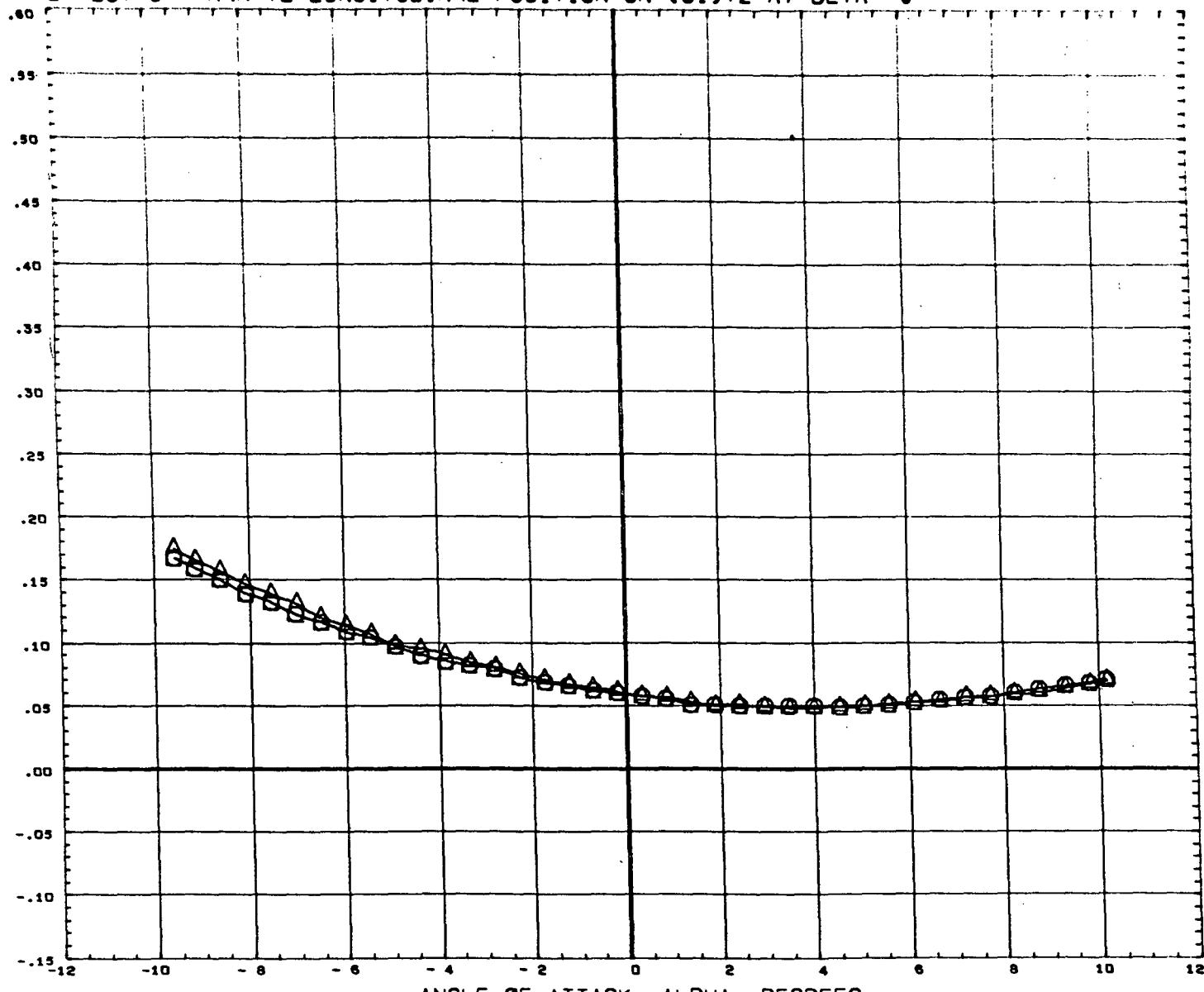
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD747D)	MDAC S-222 COMPOSITE(T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7472)	MDAC S-222 COMPOSITE(T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 537.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

MACH 1.09

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EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0

FOREBODY DRAG COEFFICIENT • CDF



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(CD7470)	Q	MDAC S-222 COMPOSITE (T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7472)	A	MDAC S-222 COMPOSITE (T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

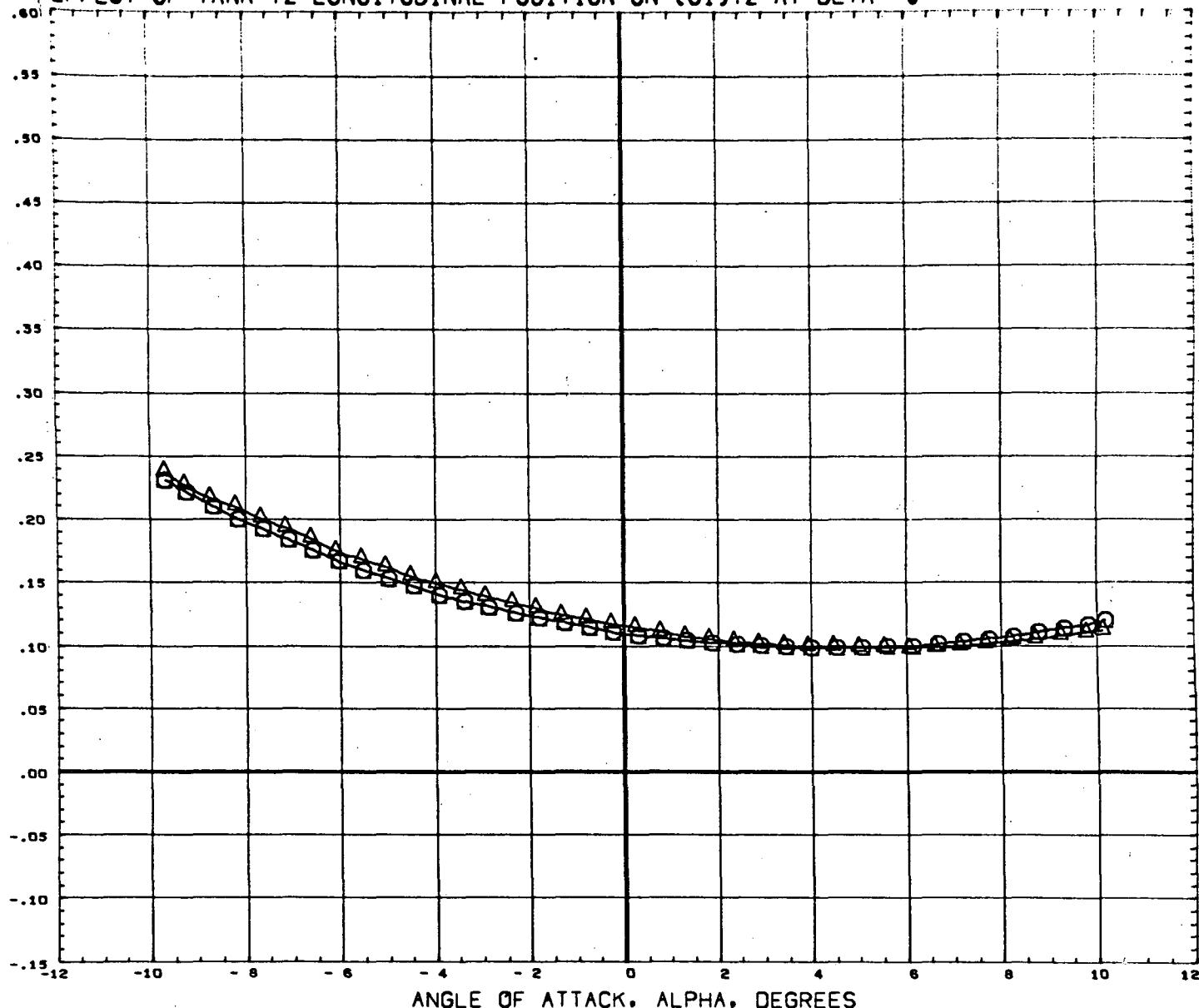
MACH

.90

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FOREBODY DRAG COEFFICIENT. CDF

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0



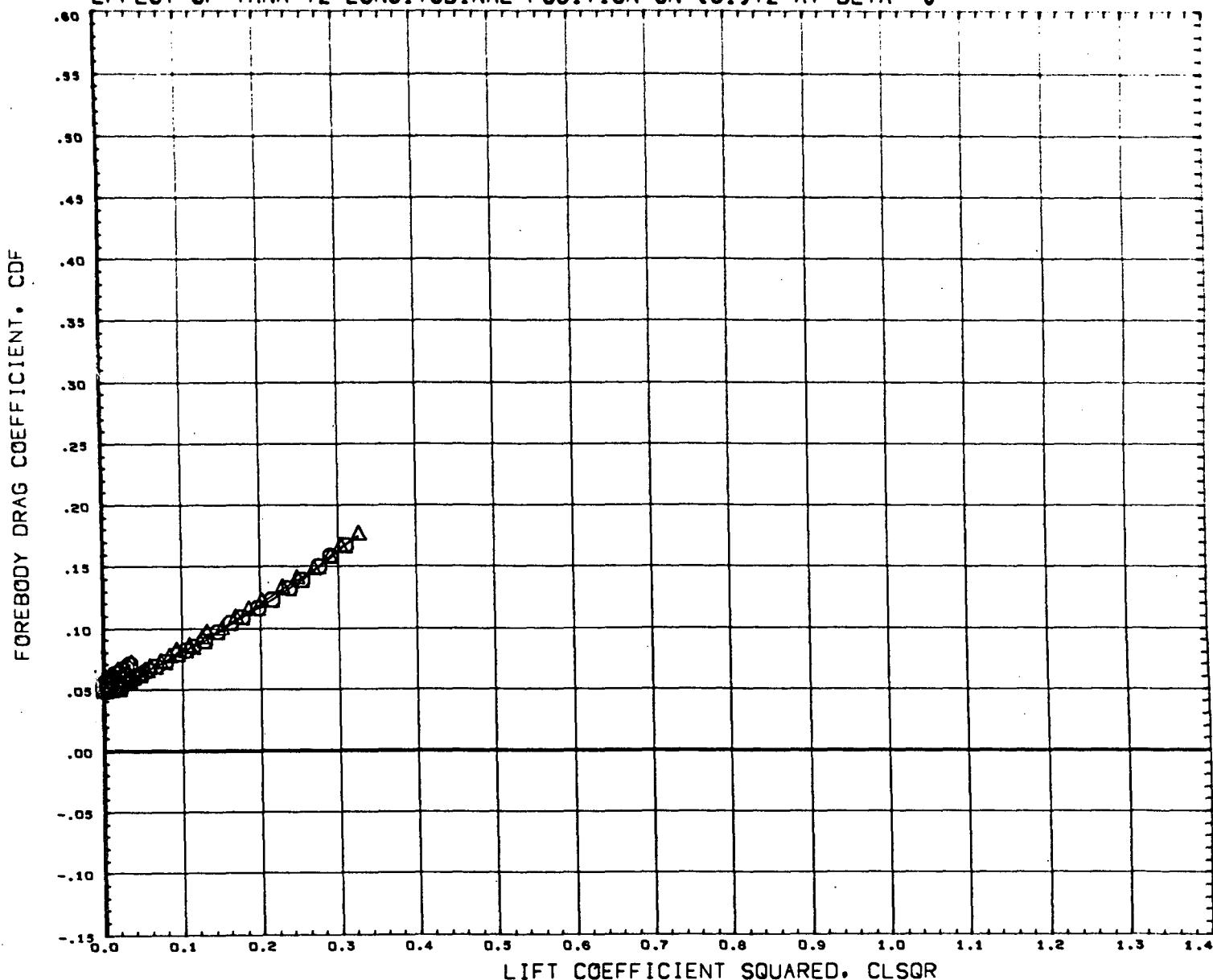
DATA SET SYMBOL CONFIGURATION DESCRIPTION
(CD7470) 0 MDAC S-222 COMPOSITE(T-CG) (01)T2
(CD7472) A MDAC S-222 COMPOSITE(T-CG) (01)T2A

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.09

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EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 AT BETA = 0



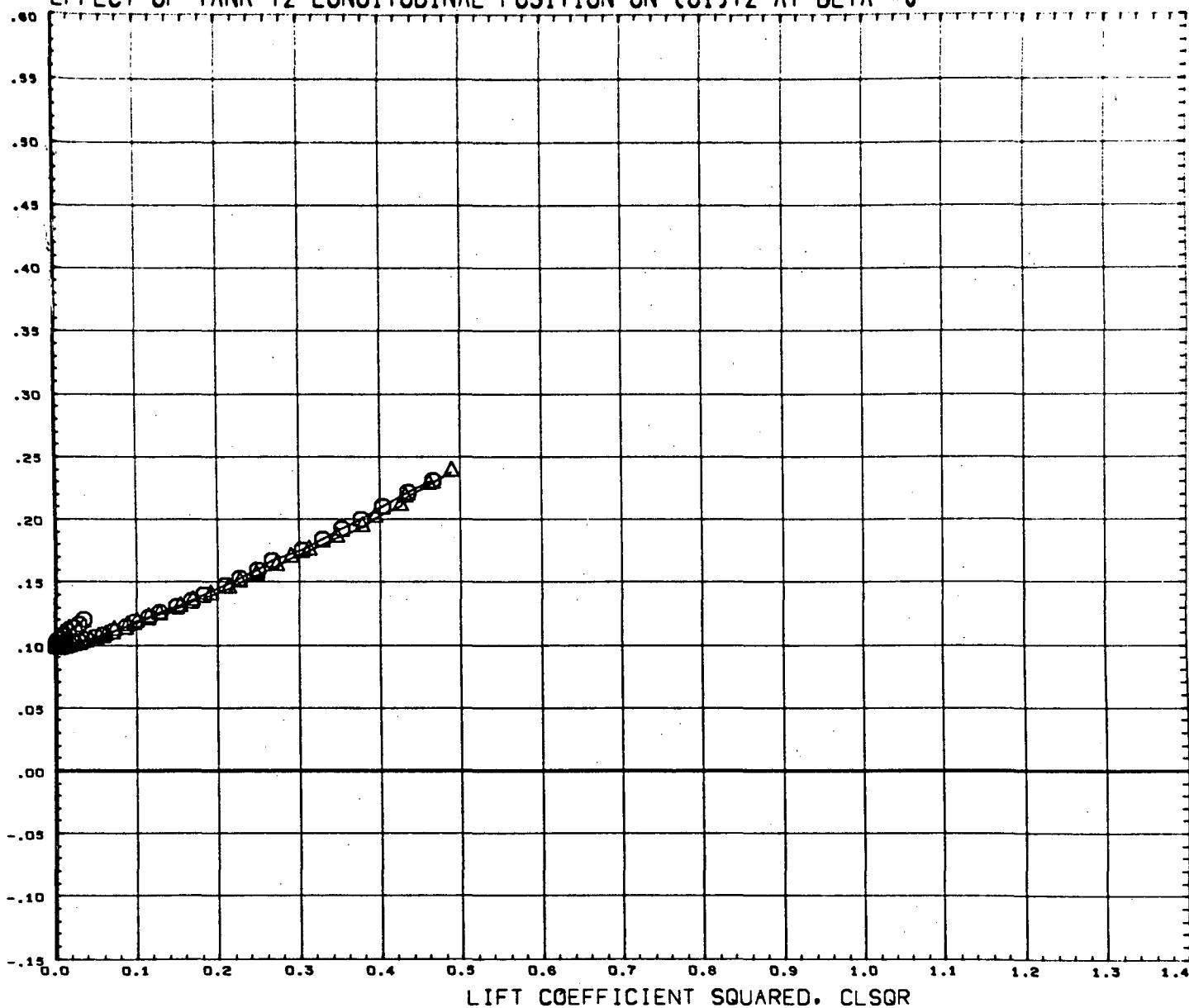
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7470)	○	MDAC S-222 COMPOSITE(T-CG) (O1)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7472)	△	MDAC S-222 COMPOSITE(T-CG) (O1)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH .90

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EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0

FOREBODY DRAG COEFFICIENT. CDF



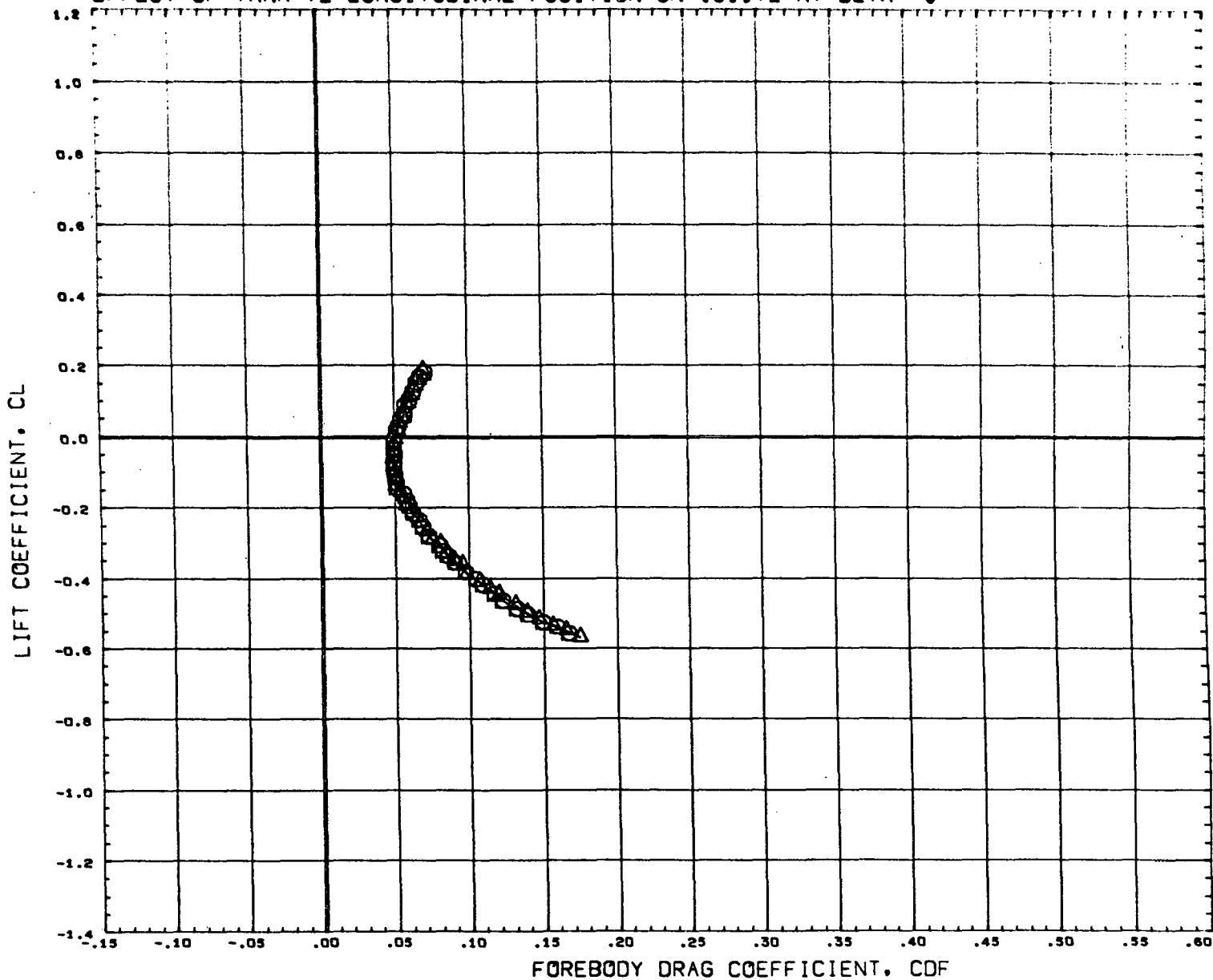
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7470) MDAC S-222 COMPOSITE (T-CG) (01)T2
 (CD7472) MDAC S-222 COMPOSITE (T-CG) (01)T2A

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.09

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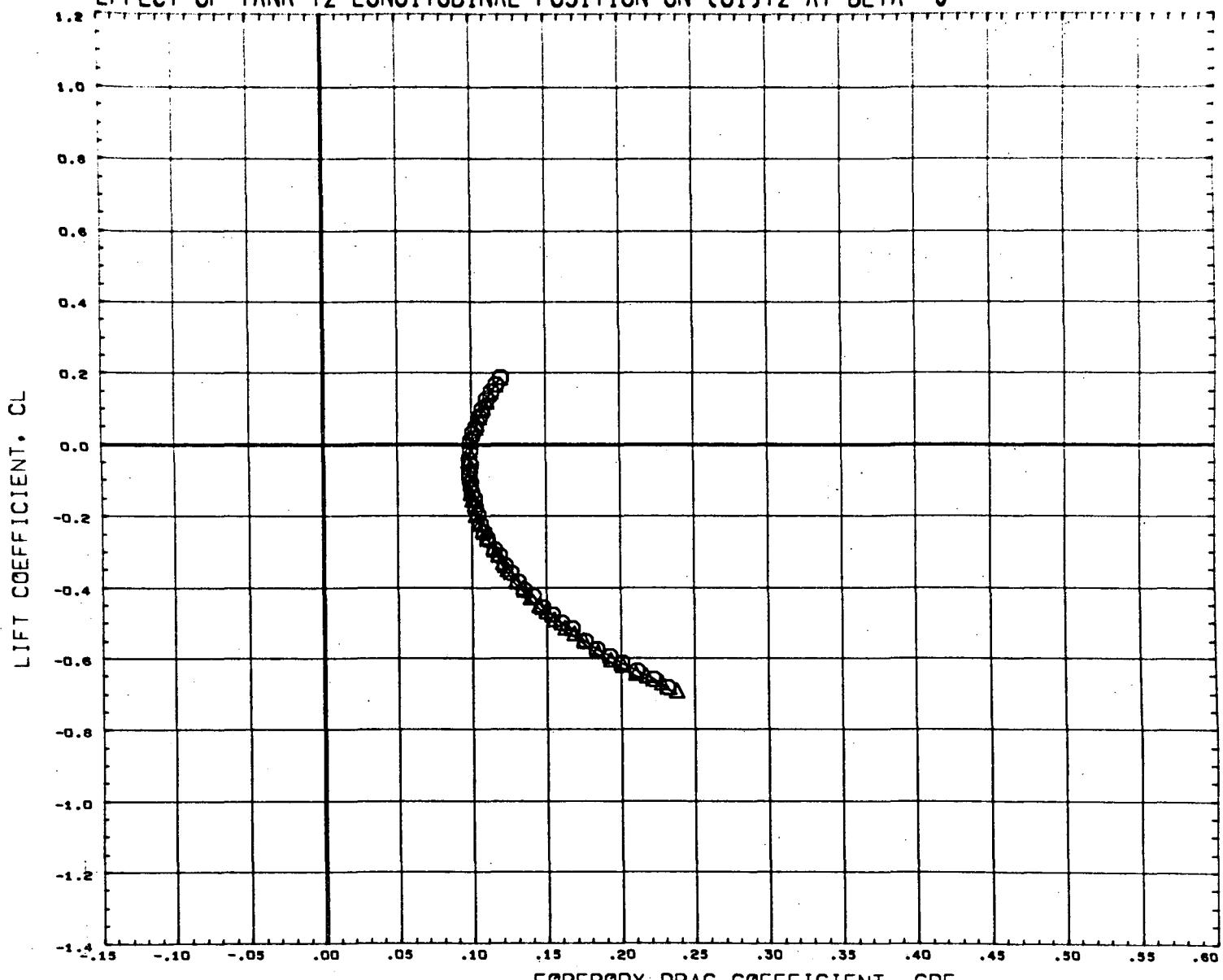
EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 AT BETA = 0



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7470) MDAC S-222 COMPOSITE (T-CG) (O1)T2
 (CD7472) MDAC S-222 COMPOSITE (T-CC) (O1)T2A

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 AT BETA = 0



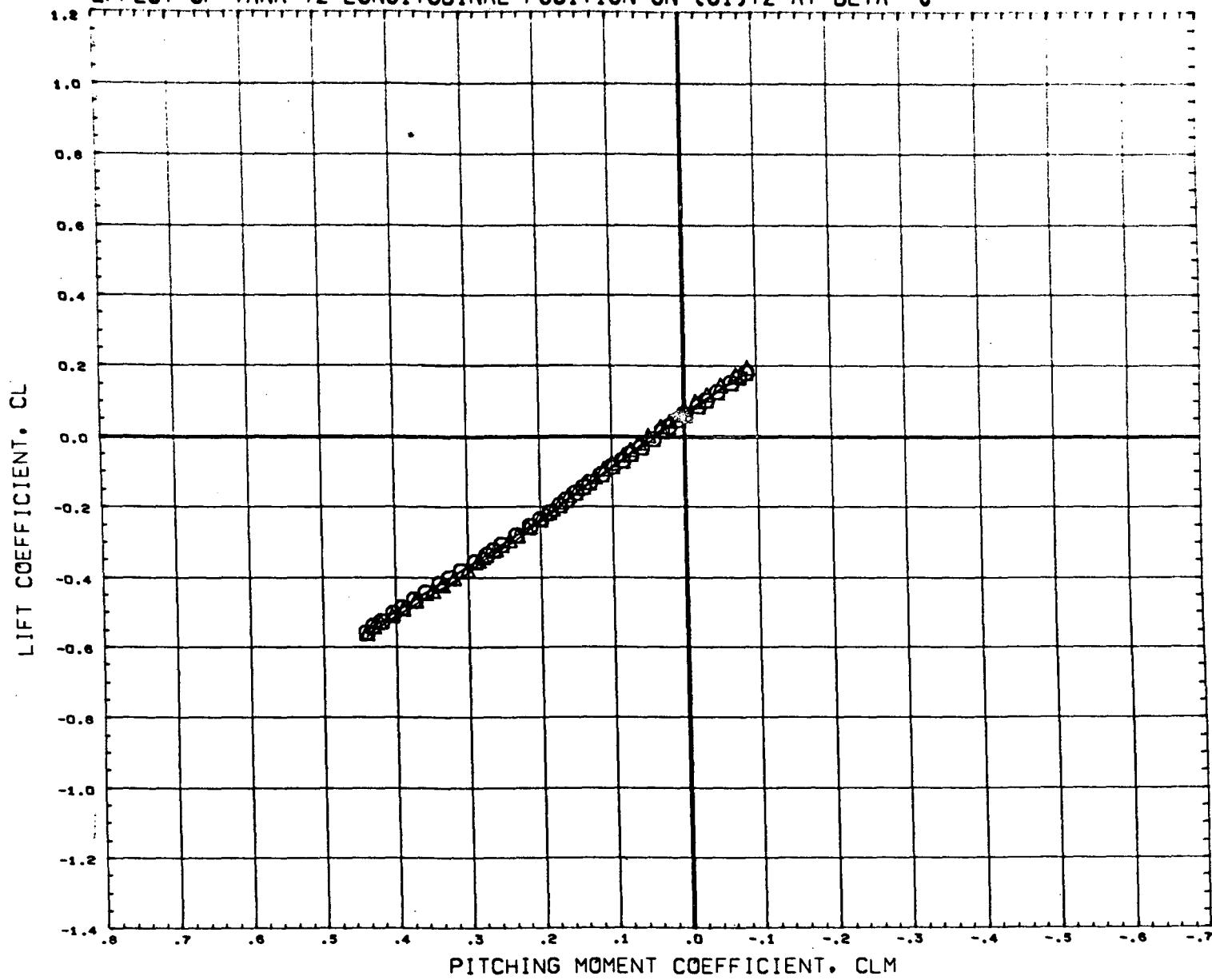
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7470) MDAC S-222 COMPOSITE(T-CG) (O1) T2
 (CD7472) MDAC S-222 COMPOSITE(T-CG) (O1) T2A

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.09

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EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0



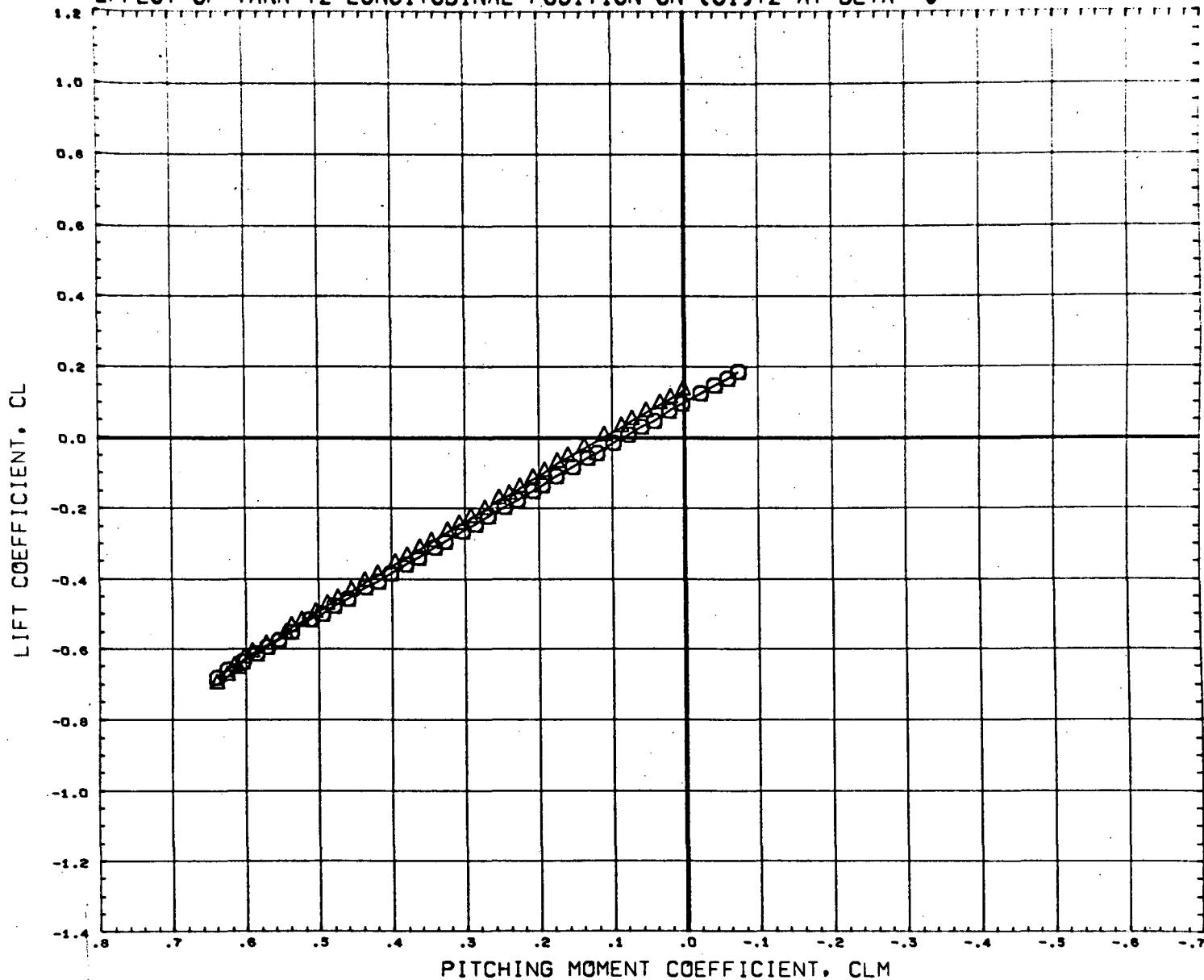
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(CD7470)	MDAC S-222 COMPOSITE (T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7472)	MDAC S-222 COMPOSITE (T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF	609.5004 IN.

BREF 662.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

MACH .90

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EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 AT BETA = 0

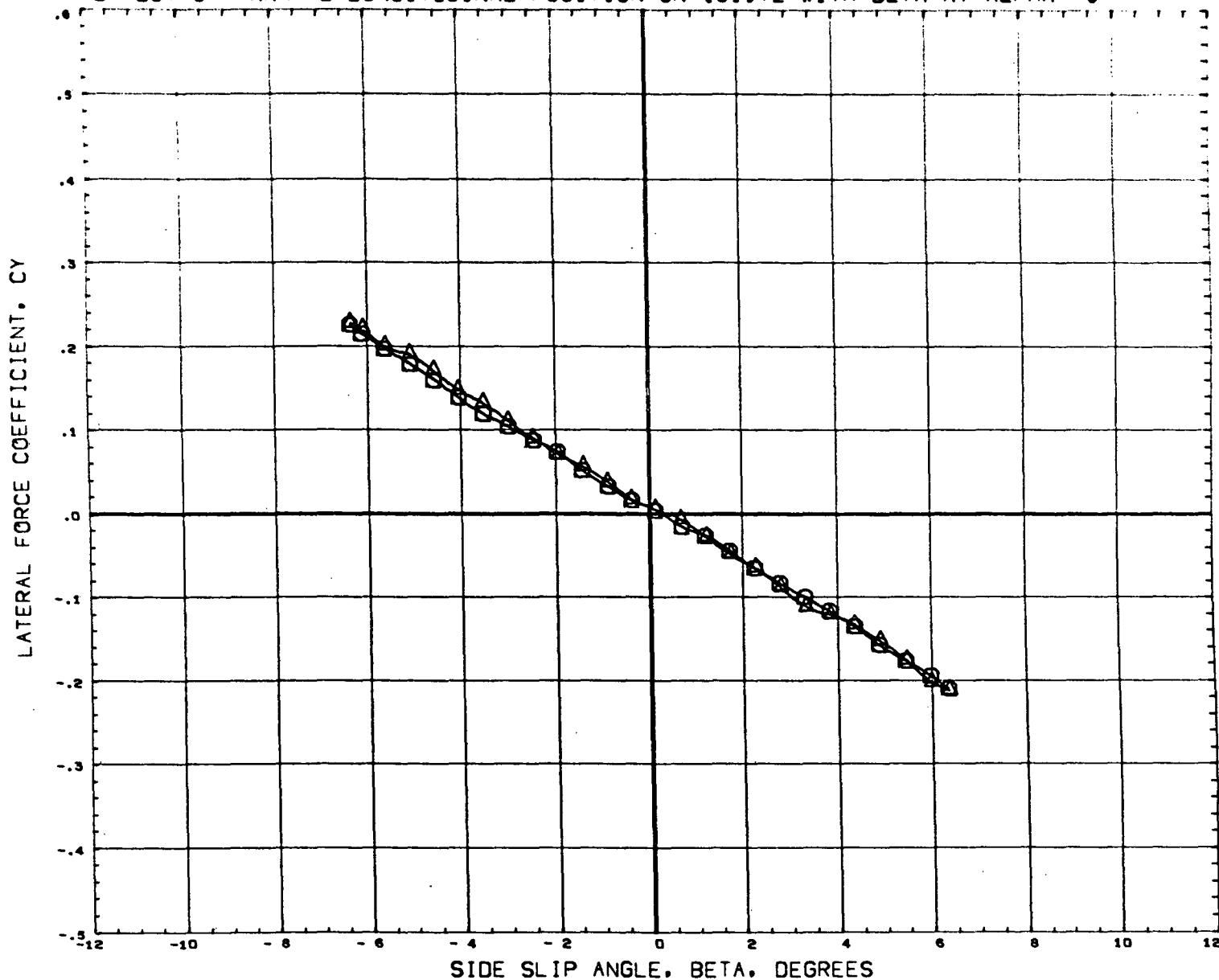


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD747D)	MDAC S-222 COMPOSITE (T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD747Z)	MDAC S-222 COMPOSITE (T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 882.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

MACH 1.09

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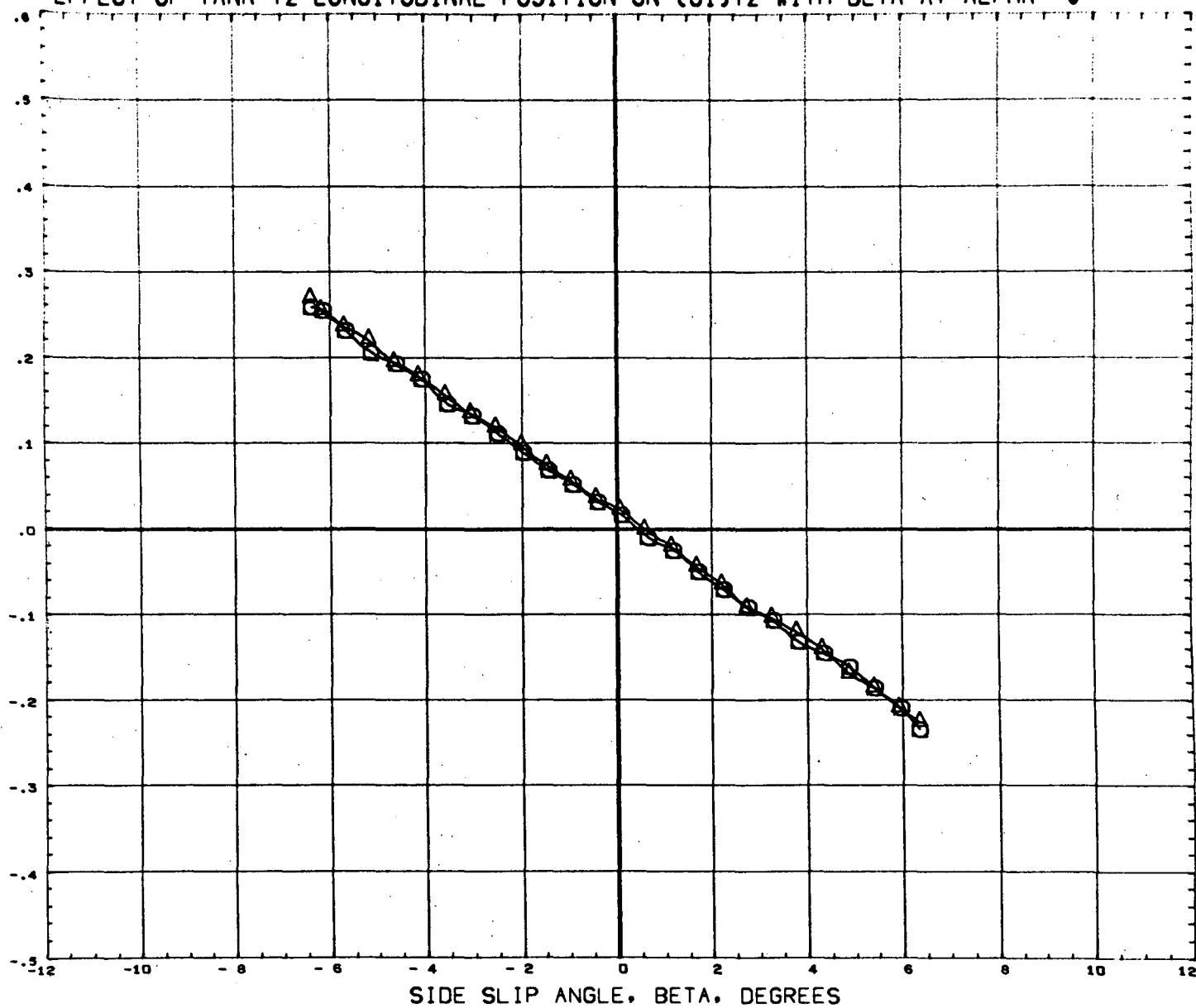
EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 WITH BETA AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7471)	MDAC S-222 COMPOSITE (T-CG) (O1) T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7473)	MDAC S-222 COMPOSITE (T-CG) (O1) T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 290.0004 IN.
						SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 WITH BETA AT ALPHA = 0

LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7471) MDAC S-222 COMPOSITE(T-CG) (01)T2
 (RD7473) MDAC S-222 COMPOSITE(T-CG) (01)T2A

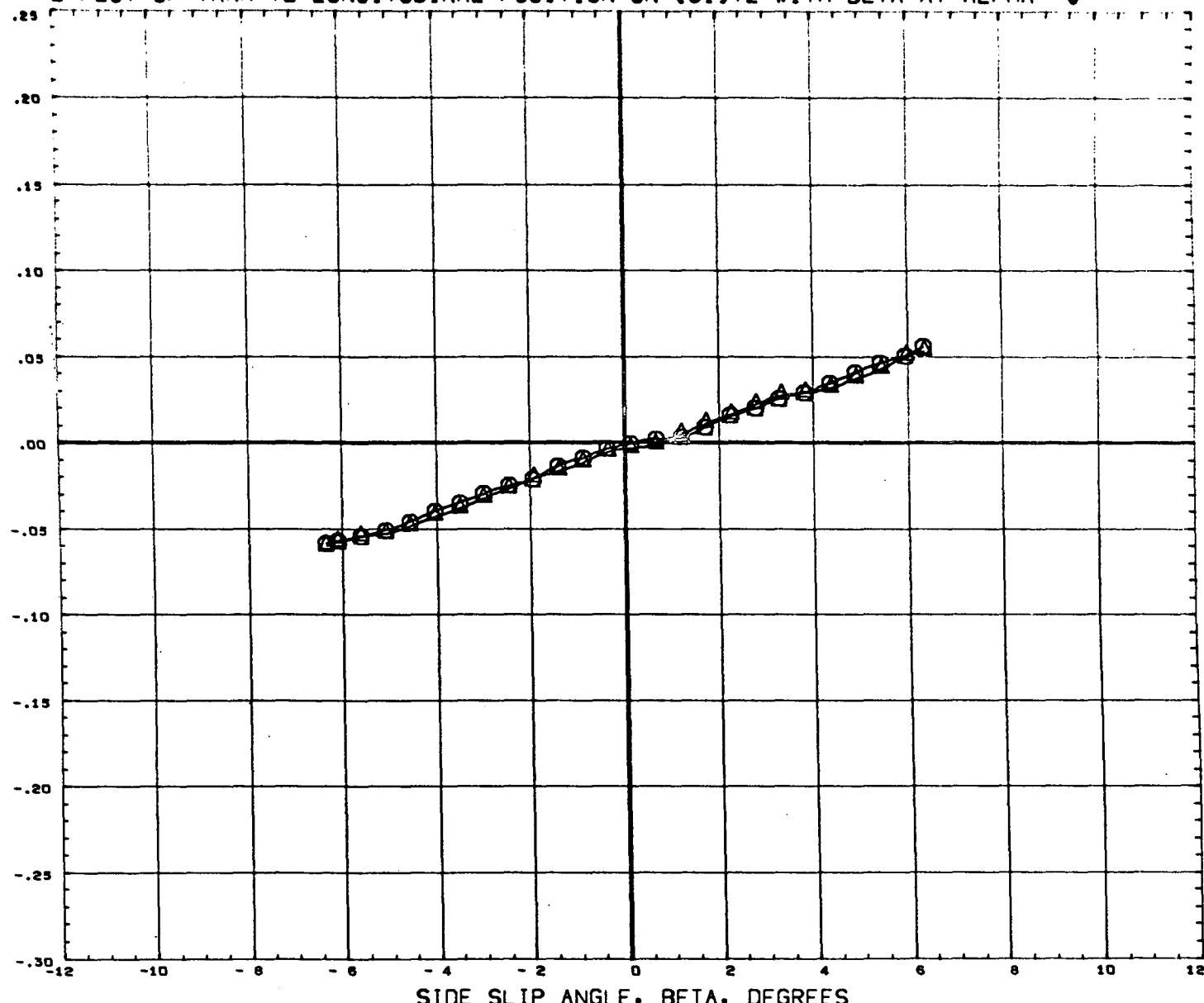
ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.09

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EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 WITH BETA AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



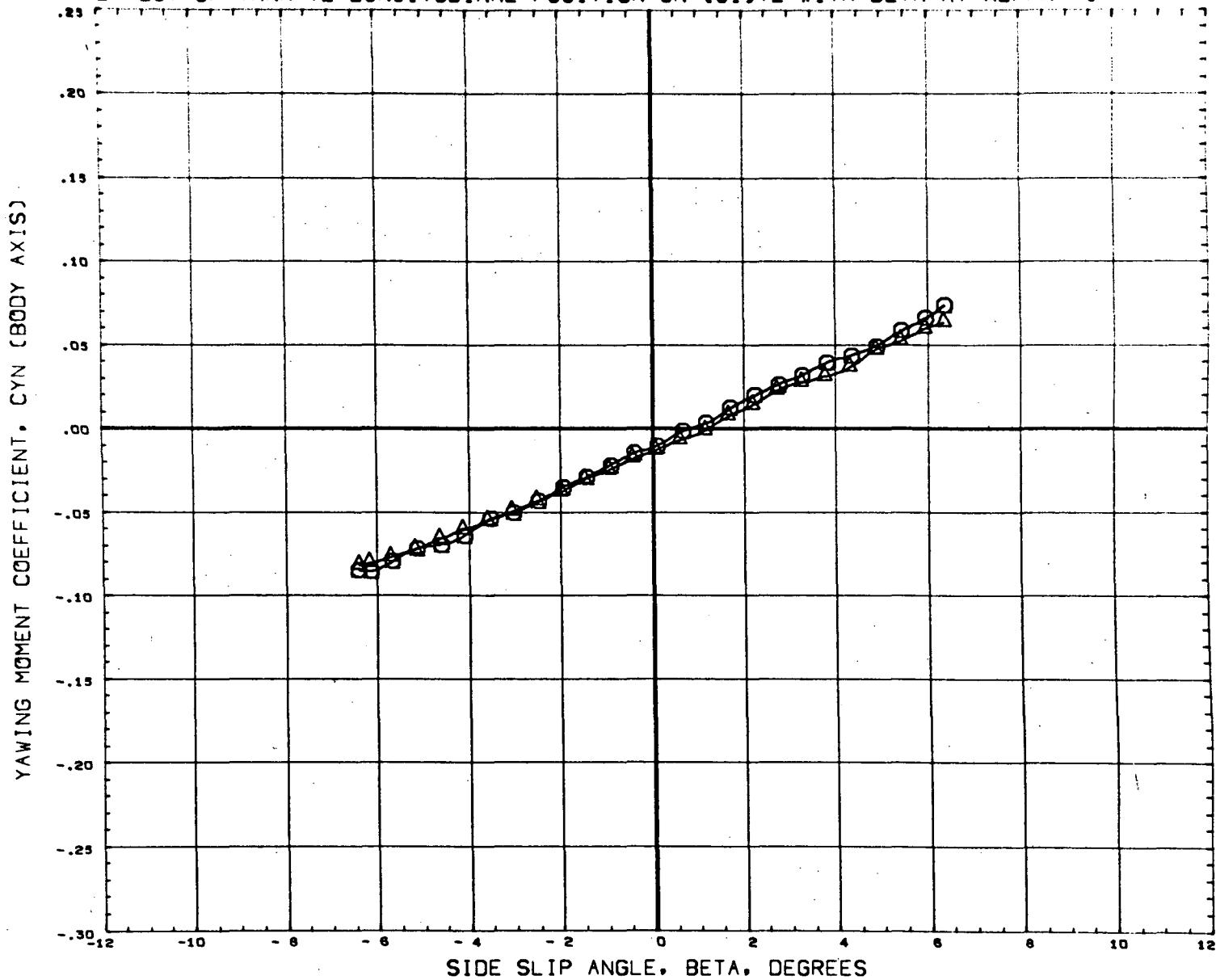
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7471)	O MDAC S-222 COMPOSITE (T-CG) (O1)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7473)	A MDAC S-222 COMPOSITE (T-CG) (O1)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH

.90

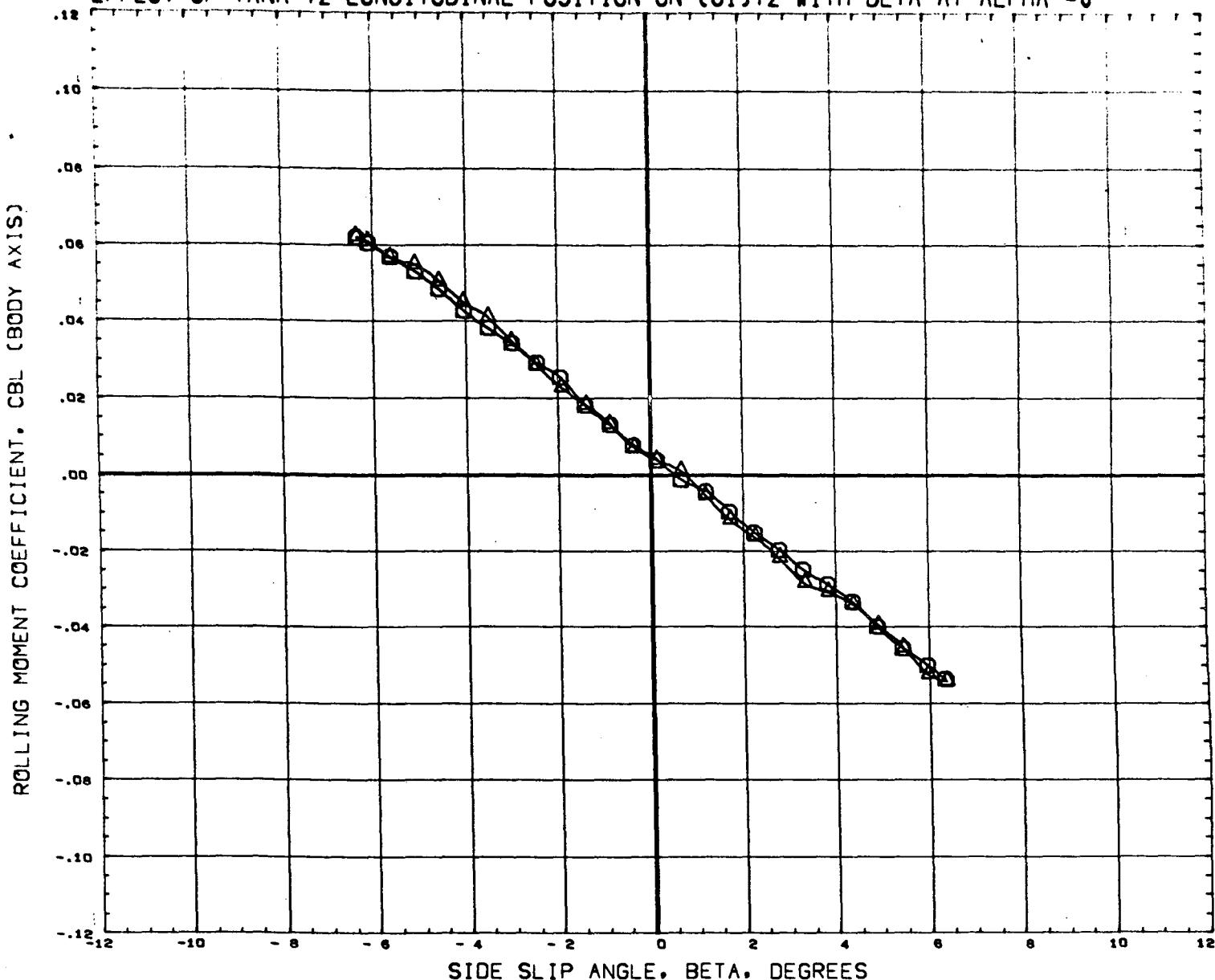
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EFFECT OF TANK T2 LONGITUDINAL POSITION ON (O1)T2 WITH BETA AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
(RD7471)	MDAC S-222 COMPOSITE(T-CG) (O1)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7473)	MDAC S-222 COMPOSITE(T-CG) (O1)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

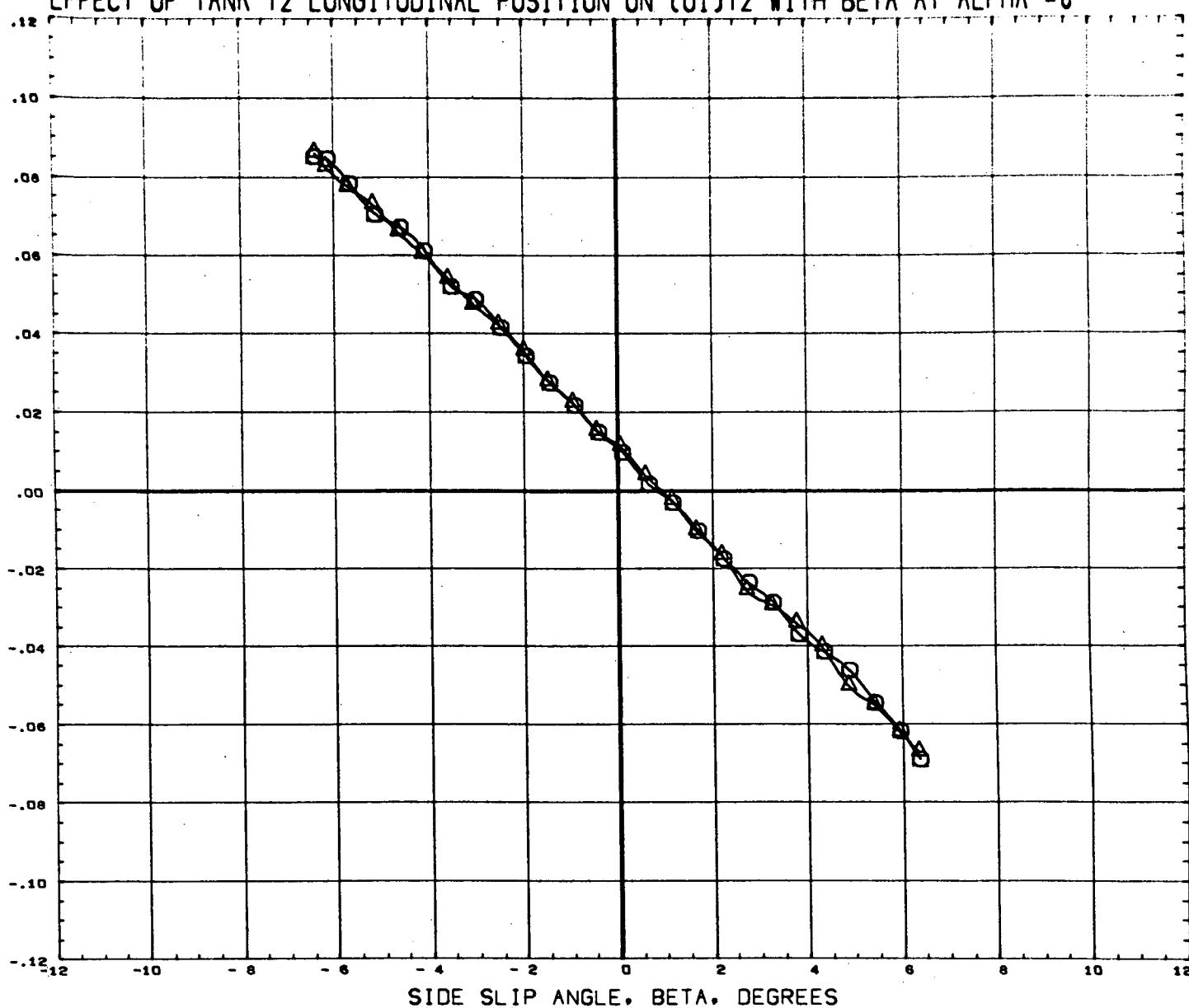
EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 WITH BETA AT ALPHA = 0



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7471)	MDAC S-222 COMPOSITE(T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7473)	MDAC S-222 COMPOSITE(T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
						BREF 882.0004 IN.
						XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 WITH BETA AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD7471) MDAC S-222 COMPOSITE(T-CG) (01)T2
 (RD7473) MDAC S-222 COMPOSITE(T-CG) (01)T2A

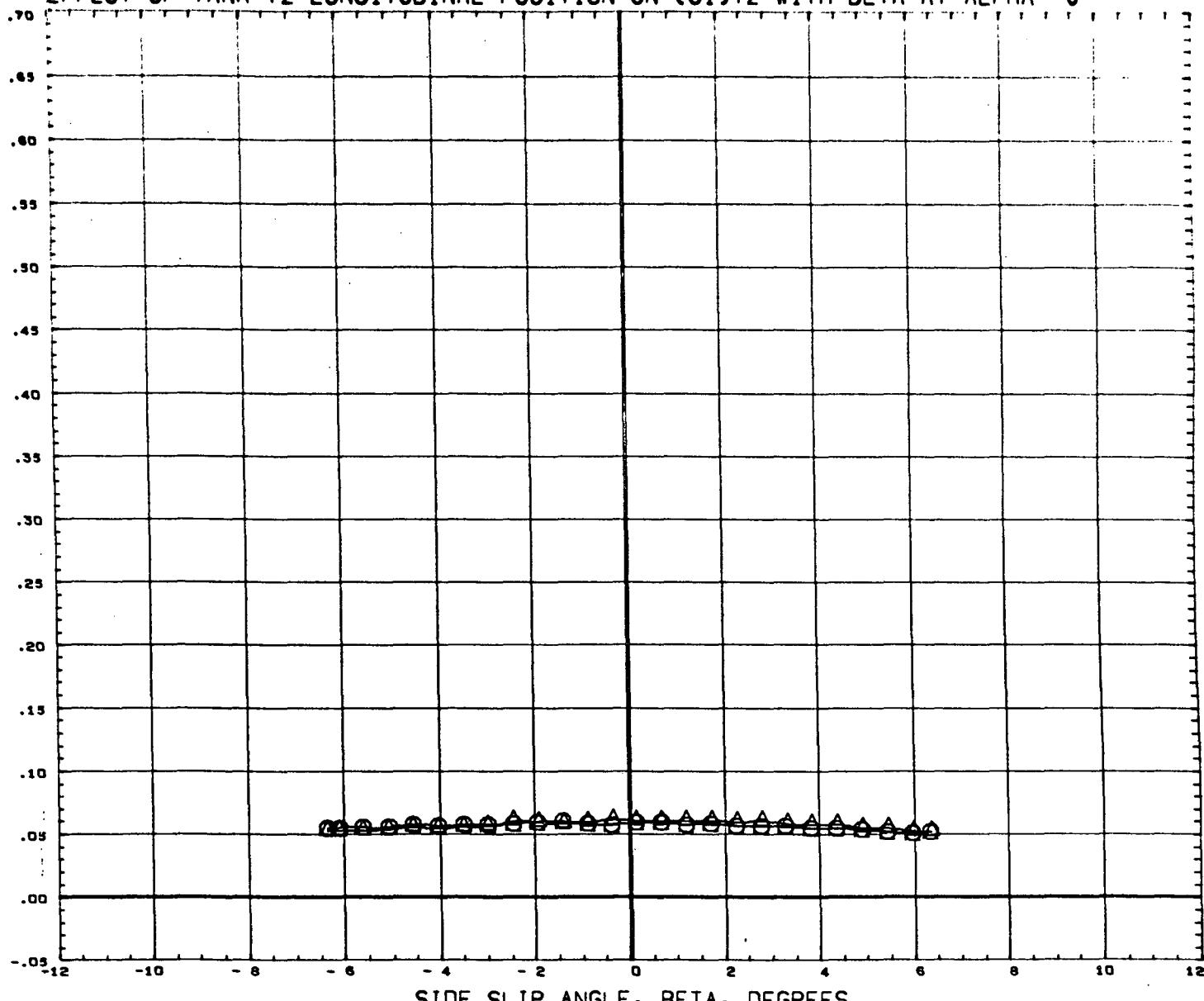
ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
0.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 1.09

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FOREBODY AXIAL FORCE COEFFICIENT, CAF

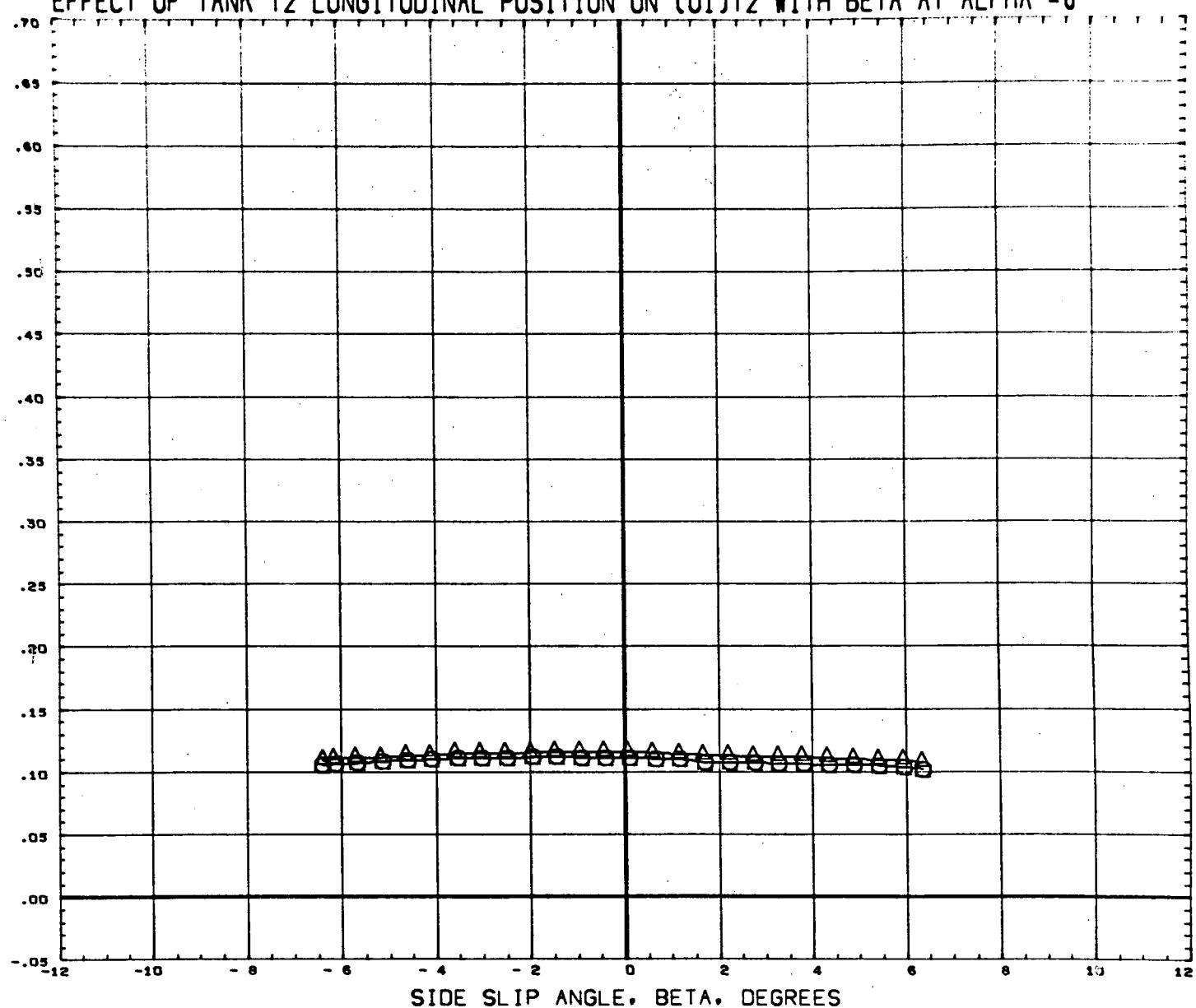
EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 WITH BETA AT ALPHA = 0



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION		
(RD7471)	Q	MDAC S-222 COMPOSITE (T-CG)	(01)T2	0.000	0.000	0.000	0.000	SREF	3155.3040	SQ.FT.
(RD7473)	A	MDAC S-222 COMPOSITE (T-CG)	(01)T2A	0.000	0.000	0.000	0.000	LREF	609.5004	IN.
								BREF	682.0004	IN.
								XMRP	557.0004	IN.
								YMRP	0.0000	IN.
								ZMRP	200.0004	IN.
								SCALE	0.0060	

EFFECT OF TANK T2 LONGITUDINAL POSITION ON (01)T2 WITH BETA AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT. CAF

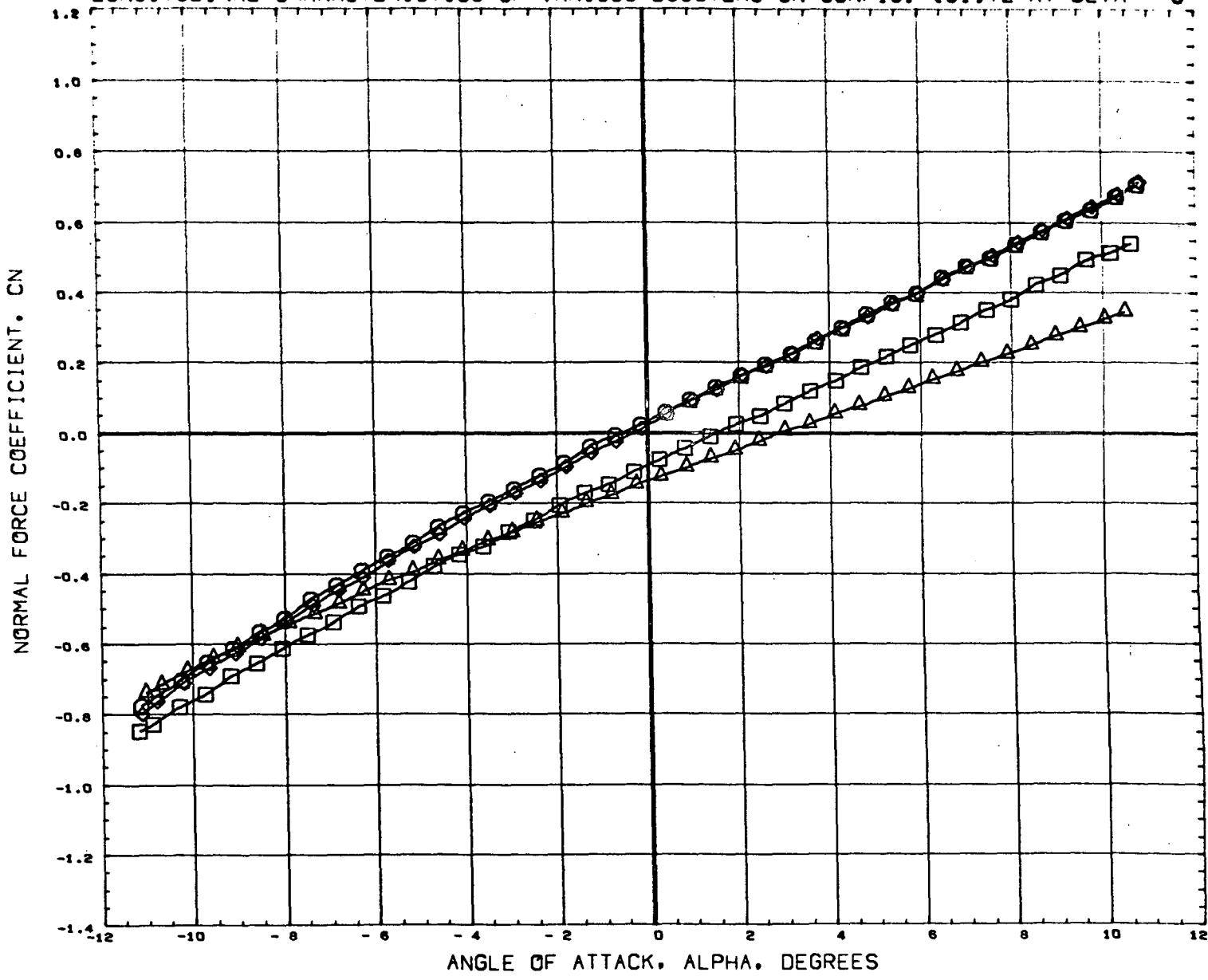


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7471)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T2	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7473)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T2A	0.000	0.000	0.000	0.000	LREF 609.5004 IN.
							BREF 882.0004 IN.
							XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH 1.09

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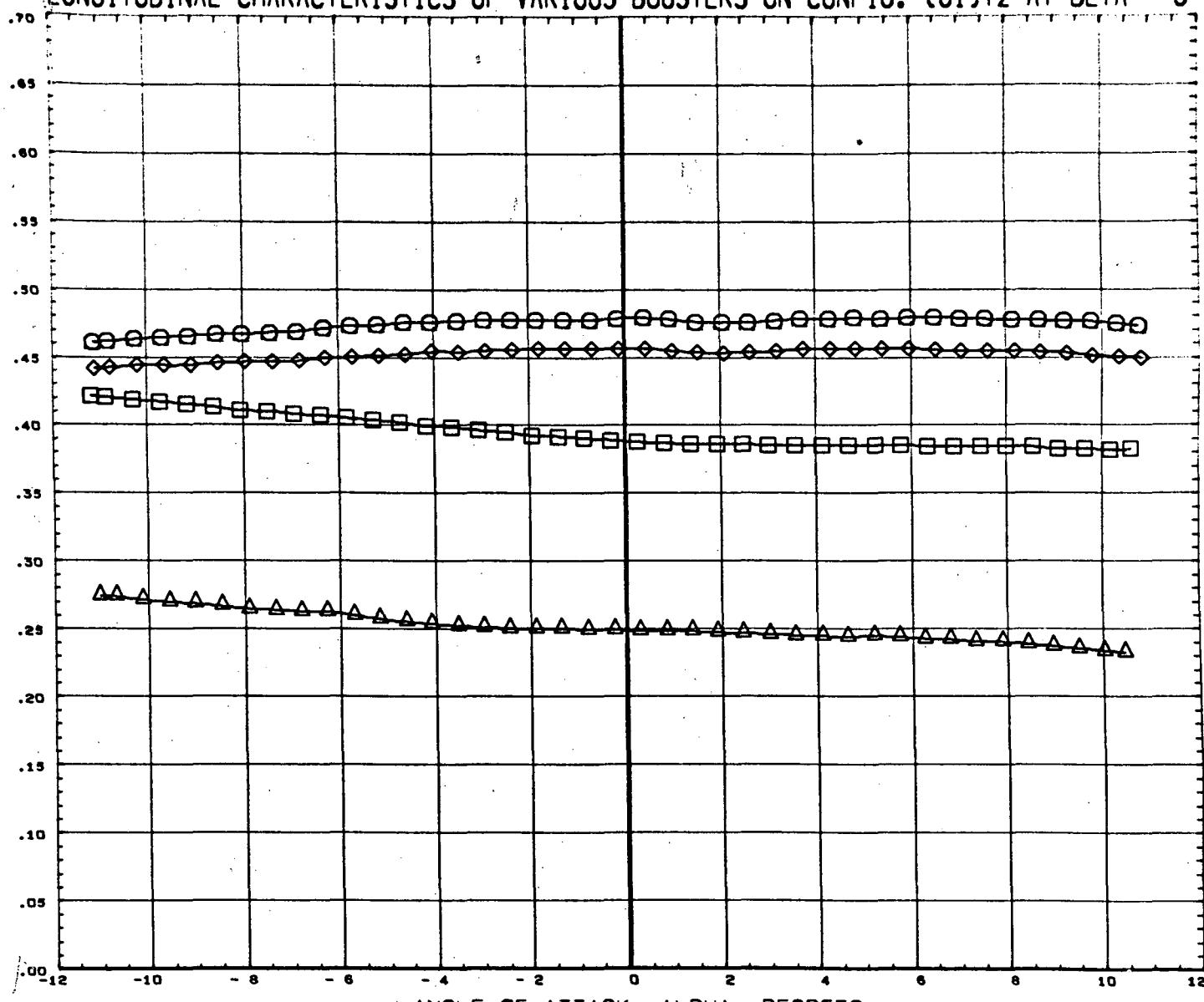
LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
(CD7452)	○	MDAC S-222 COMPOSITE (T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7454)	□	MDAC S-222 COMPOSITE (T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
(CD7455)	◇	MDAC S-222 COMPOSITE (T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF 882.0004 IN.
(CD7458)	□	MDAC S-222 COMPOSITE (T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6

AXIAL FORCE COEFFICIENT, CA



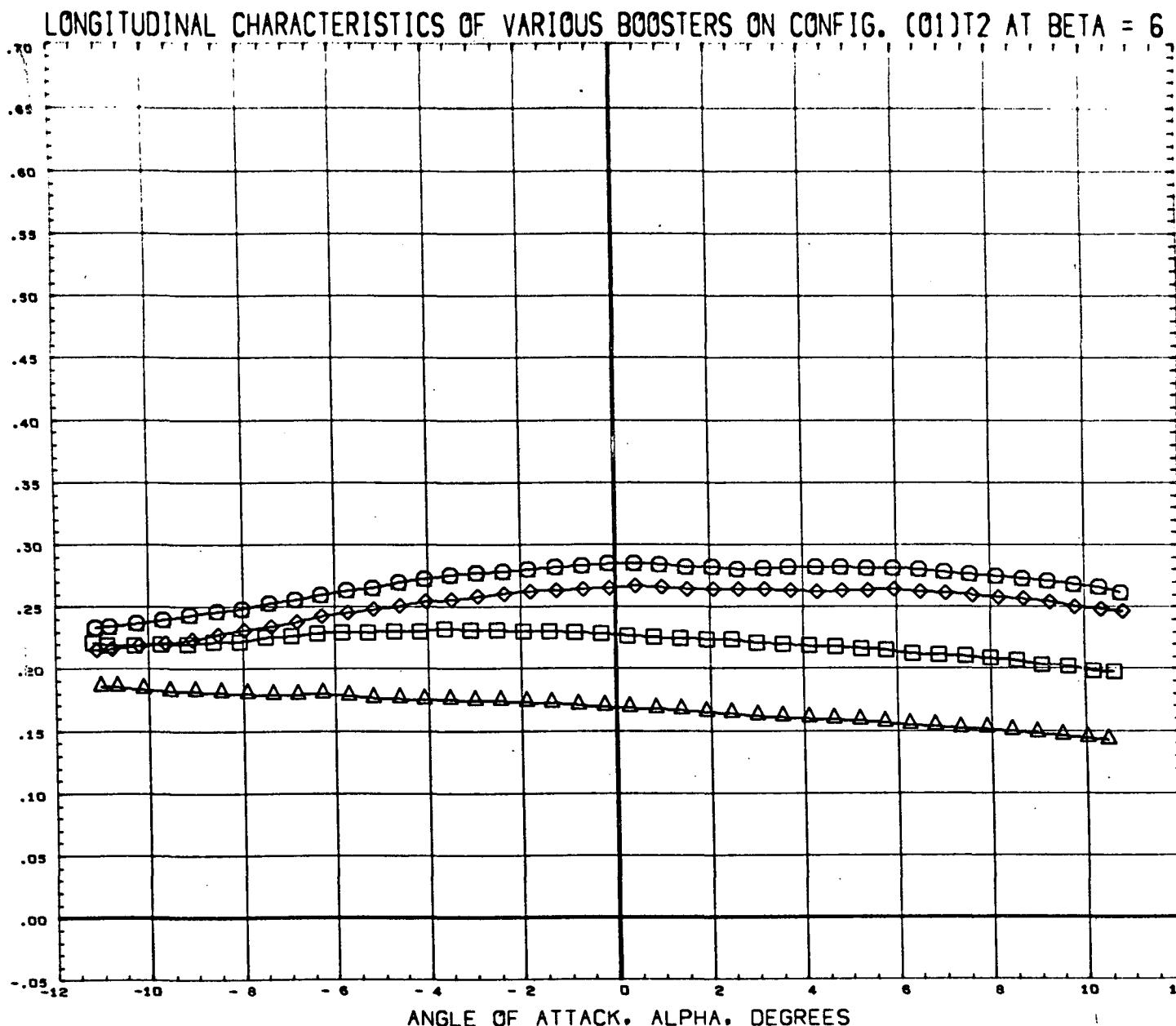
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION	
						SREF	IN.
(CD7452)	MDAC S-222 COMPOSITE(T-CG) (01)T2B1	6.000	0.000	0.000	0.000	3155.3040	SQ.FT.
(CD7454)	MDAC S-222 COMPOSITE(T-CG) (01)T2B2	6.000	0.000	0.000	0.000	609.5004	IN.
(CD7455)	MDAC S-222 COMPOSITE(T-CG) (01)T2B3	6.000	0.000	0.000	0.000	882.0004	IN.
(CD7458)	MDAC S-222 COMPOSITE(T-CG) (01)T2B4	6.000	0.000	0.000	0.000	557.0004	IN.
						YMRP	0.0000
						ZMRP	200.0004
						SCALE	0.0060

MACH 1.51

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FOREBODY AXIAL FORCE COEFFICIENT. CAF



ANGLE OF ATTACK. ALPHA. DEGREES

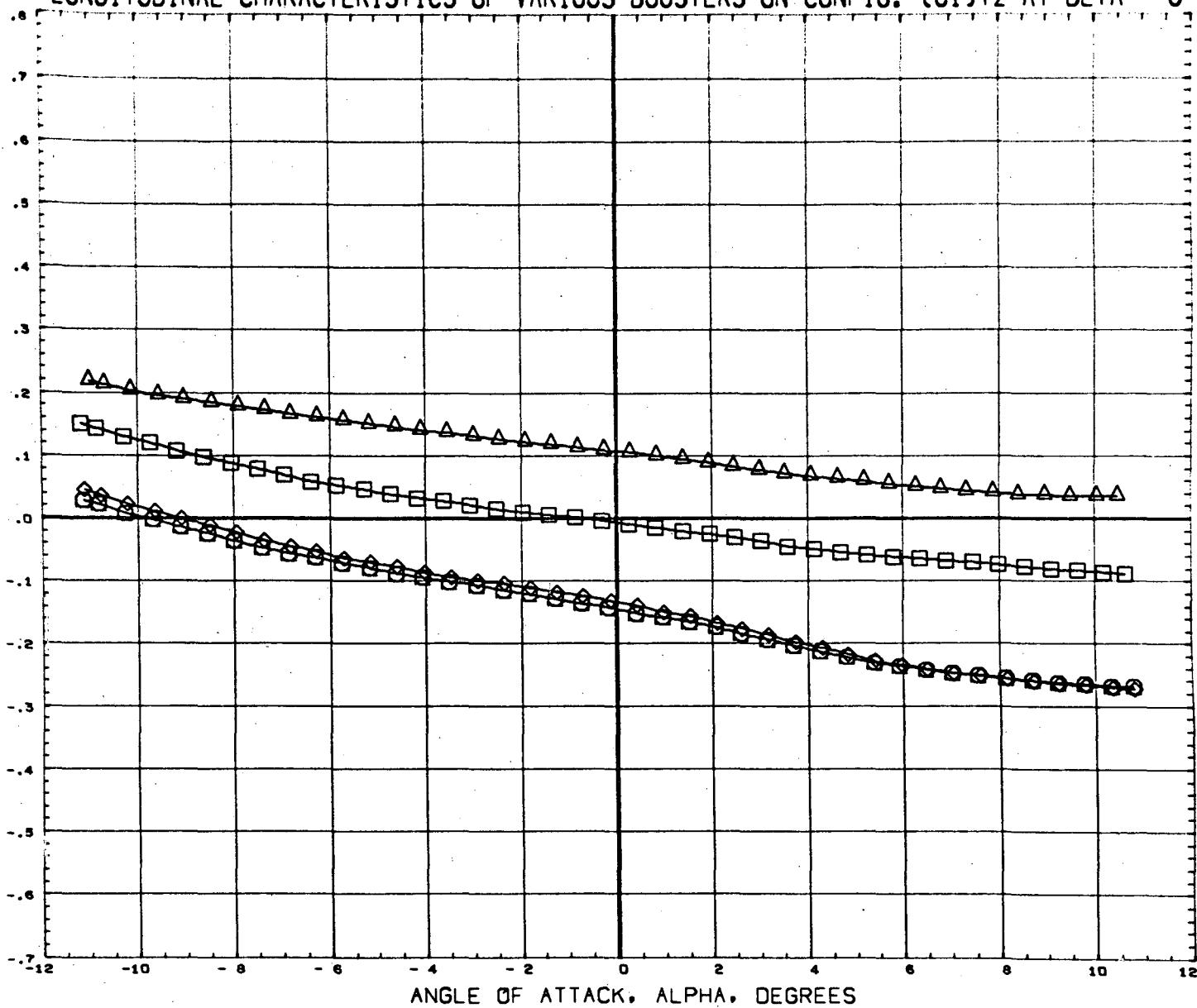
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE	INFORMATION
(CD7452)	MDAC S-222 COMPOSITE(T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7454)	MDAC S-222 COMPOSITE(T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
(CD7455)	MDAC S-222 COMPOSITE(T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF	882.0004 IN.
(CD7458)	MDAC S-222 COMPOSITE(T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6

PITCHING MOMENT COEFFICIENT, CLM



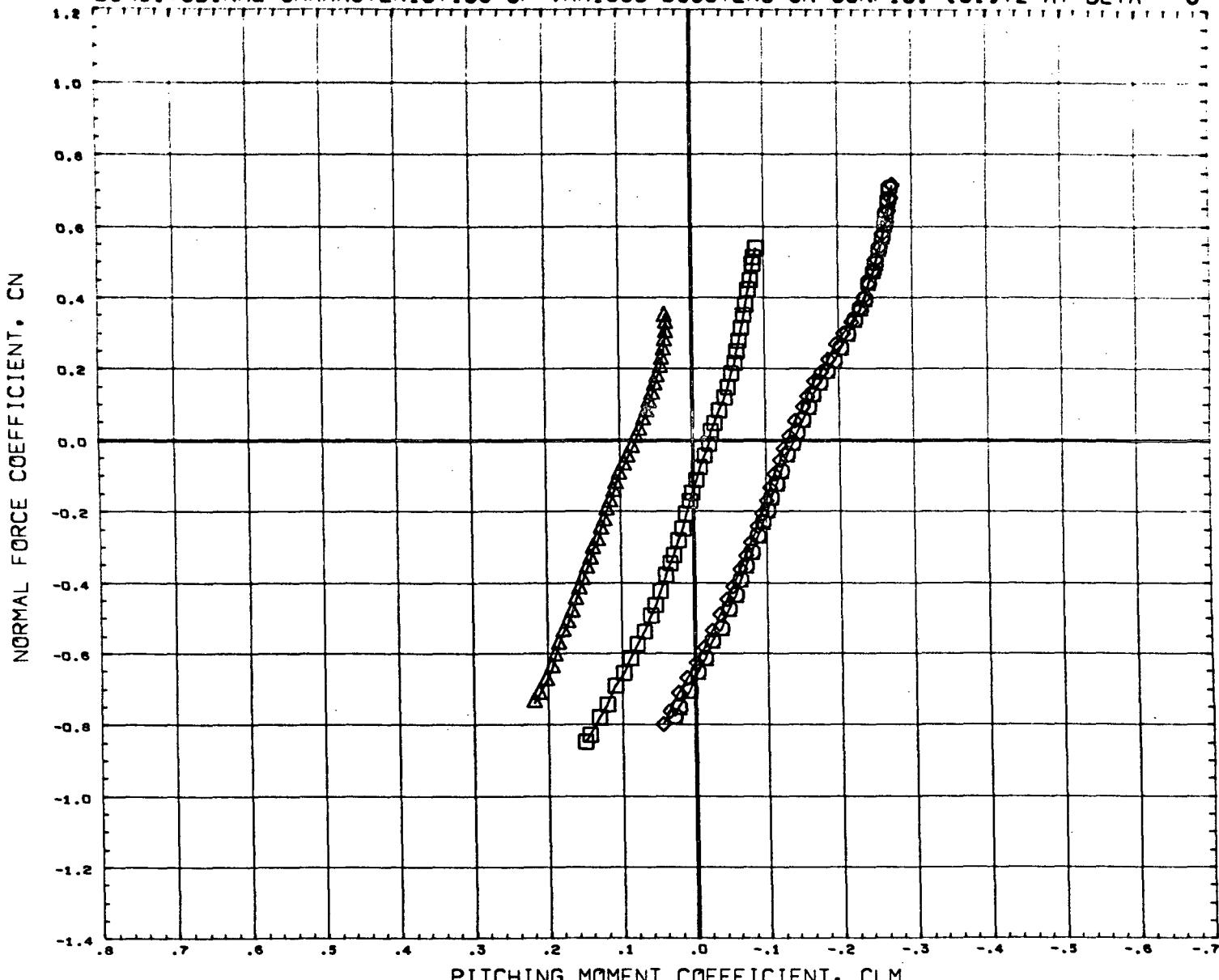
ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7452)	MDAC S-222 COMPOSITE (T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7454)	MDAC S-222 COMPOSITE (T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
(CD7455)	MDAC S-222 COMPOSITE (T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF 882.0004 IN.
(CD7458)	MDAC S-222 COMPOSITE (T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (O1)T2 AT BETA = 6

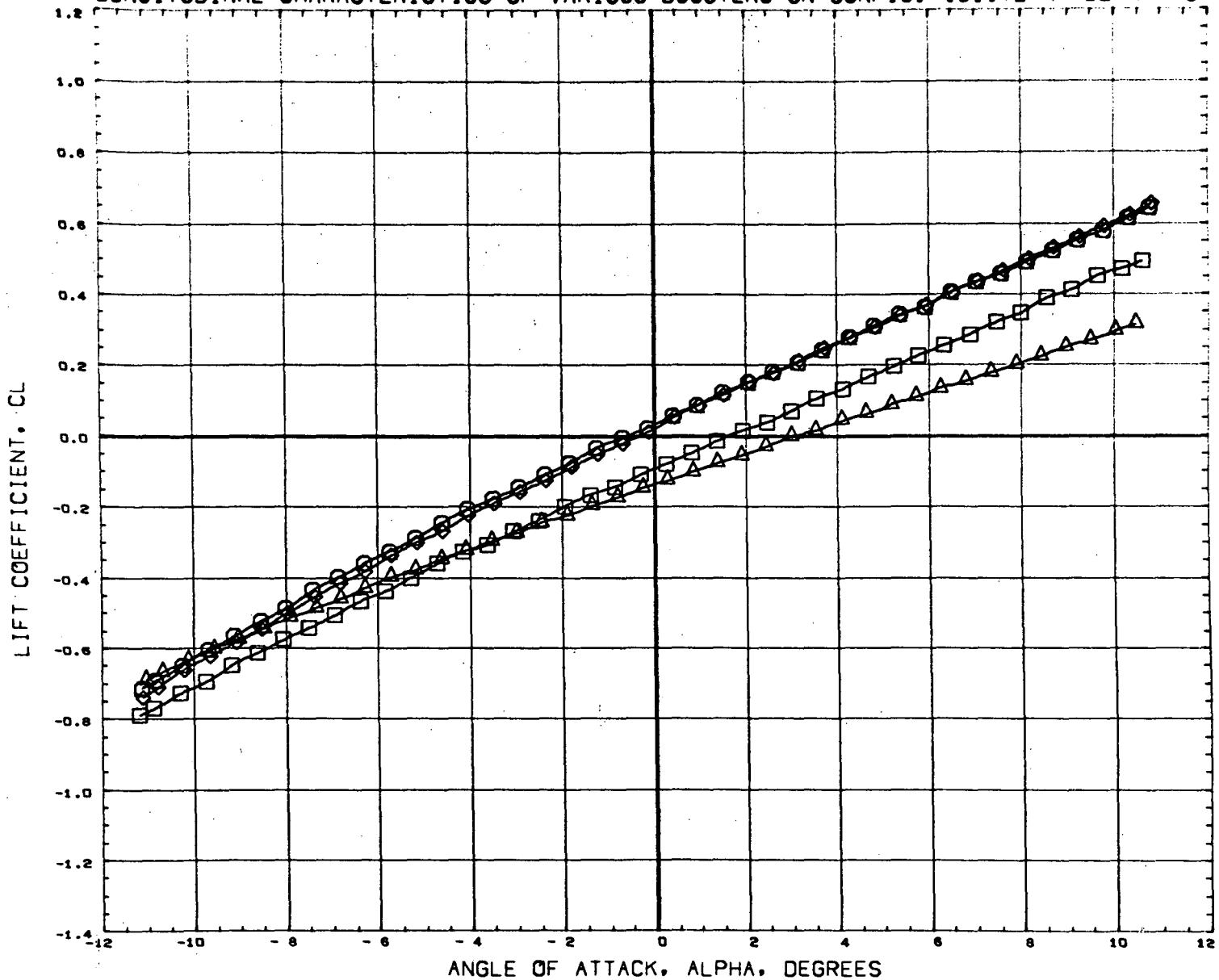


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRCRN	RUDDER	REFERENCE	INFORMATION
(CD7452)	MDAC S-222 COMPOSITE (T-CG) (O1) T2B1	6.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7454)	MDAC S-222 COMPOSITE (T-CG) (O1) T2B2	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
(CD7455)	MDAC S-222 COMPOSITE (T-CG) (O1) T2B3	6.000	0.000	0.000	0.000	BREF	882.0004 IN.
(CD7458)	MDAC S-222 COMPOSITE (T-CG) (O1) T2B4	6.000	0.000	0.000	0.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6



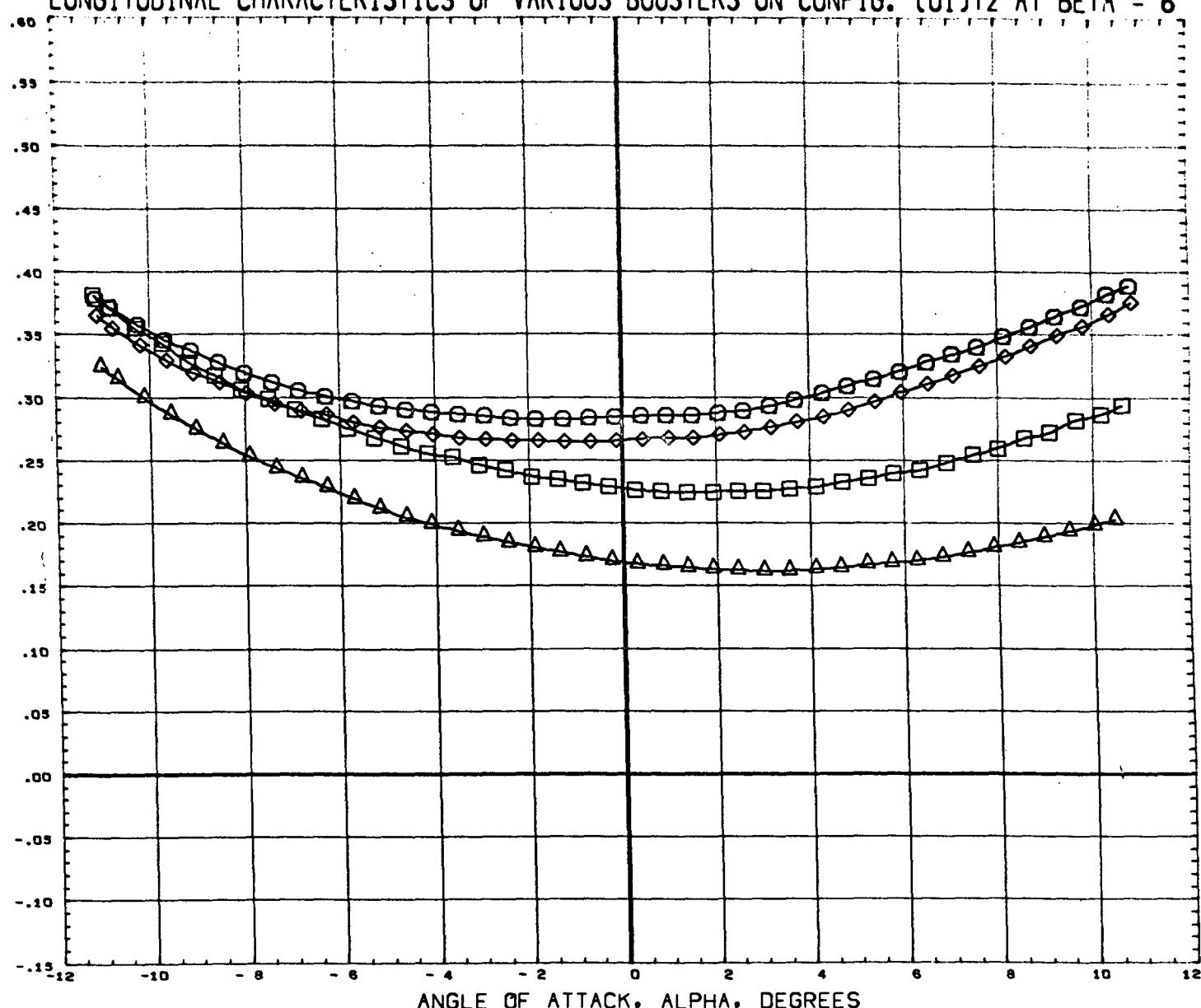
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDER	REFERENCE	INFORMATION
(CD7452)	MDAC S-222 COMPOSITE (T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7454)	MDAC S-222 COMPOSITE (T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
(CD7455)	MDAC S-222 COMPOSITE (T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF	882.0004 IN.
(CD7458)	MDAC S-222 COMPOSITE (T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6

FOREBODY DRAG COEFFICIENT. CDF



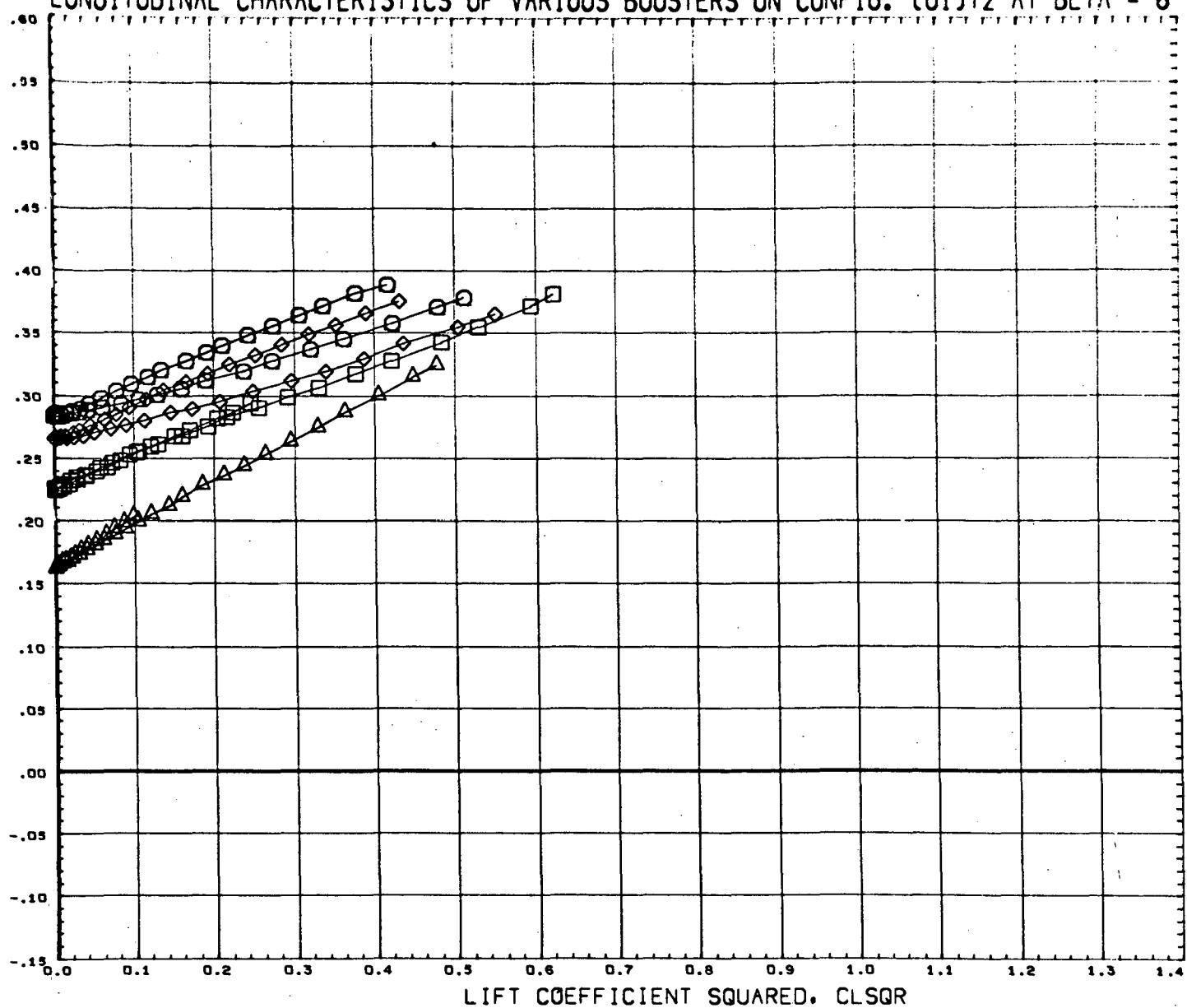
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE	INFORMATION
(CD7452)	Q	MDAC S-222 COMPOSITE (T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7454)		MDAC S-222 COMPOSITE (T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
(CD7455)	◇	MDAC S-222 COMPOSITE (T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF	882.0004 IN.
(CD7458)	□	MDAC S-222 COMPOSITE (T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH 1.51

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LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6

FOREBODY DRAG COEFFICIENT, CDF



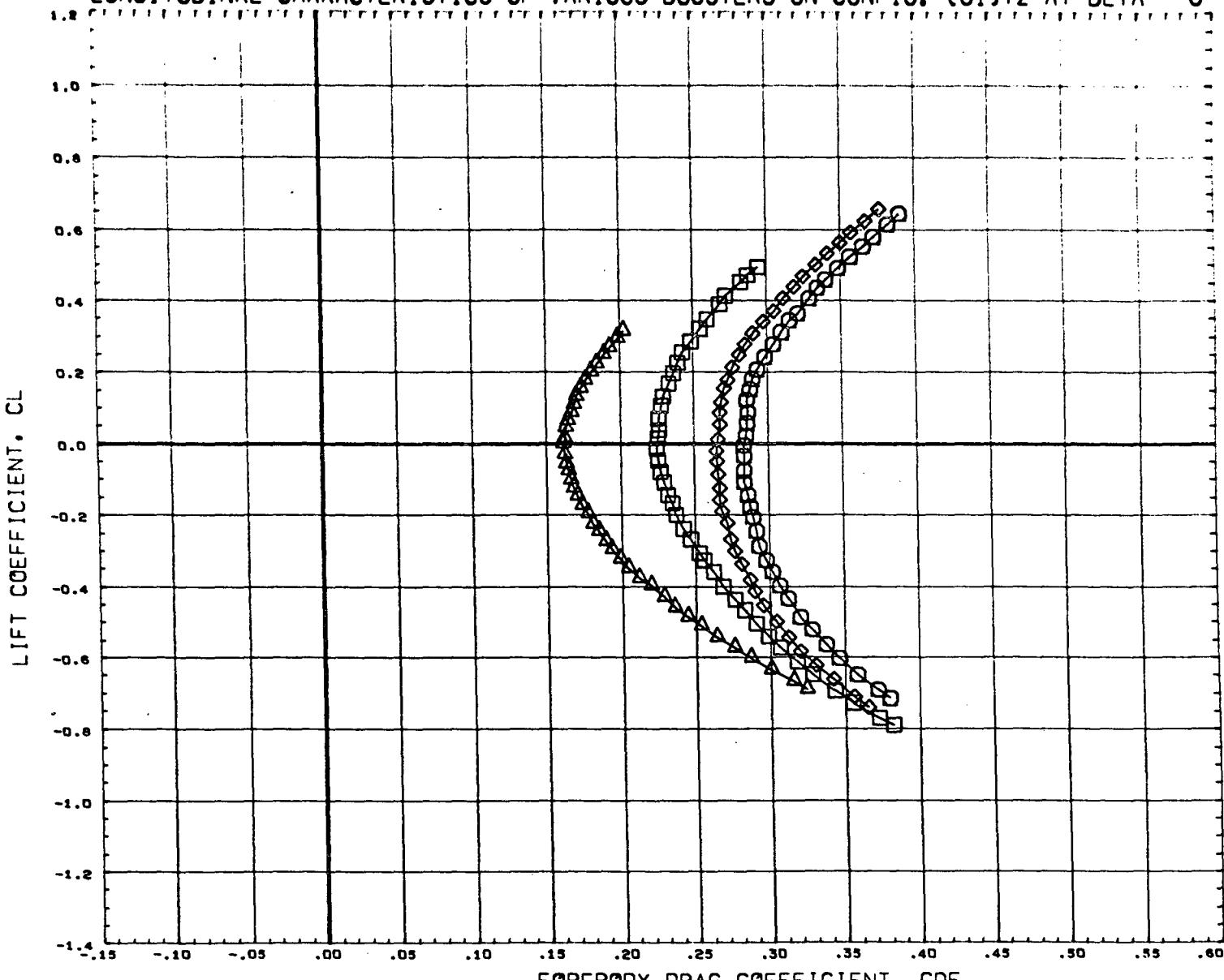
LIFT COEFFICIENT SQUARED, CLSQR

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(CD7452)	MDAC S-222 COMPOSITE (T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF	3155.3040 SO.FT.
(CD7454)	MDAC S-222 COMPOSITE (T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
(CD7455)	MDAC S-222 COMPOSITE (T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF	882.0004 IN.
(CD7458)	MDAC S-222 COMPOSITE (T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH 1.51

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LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6

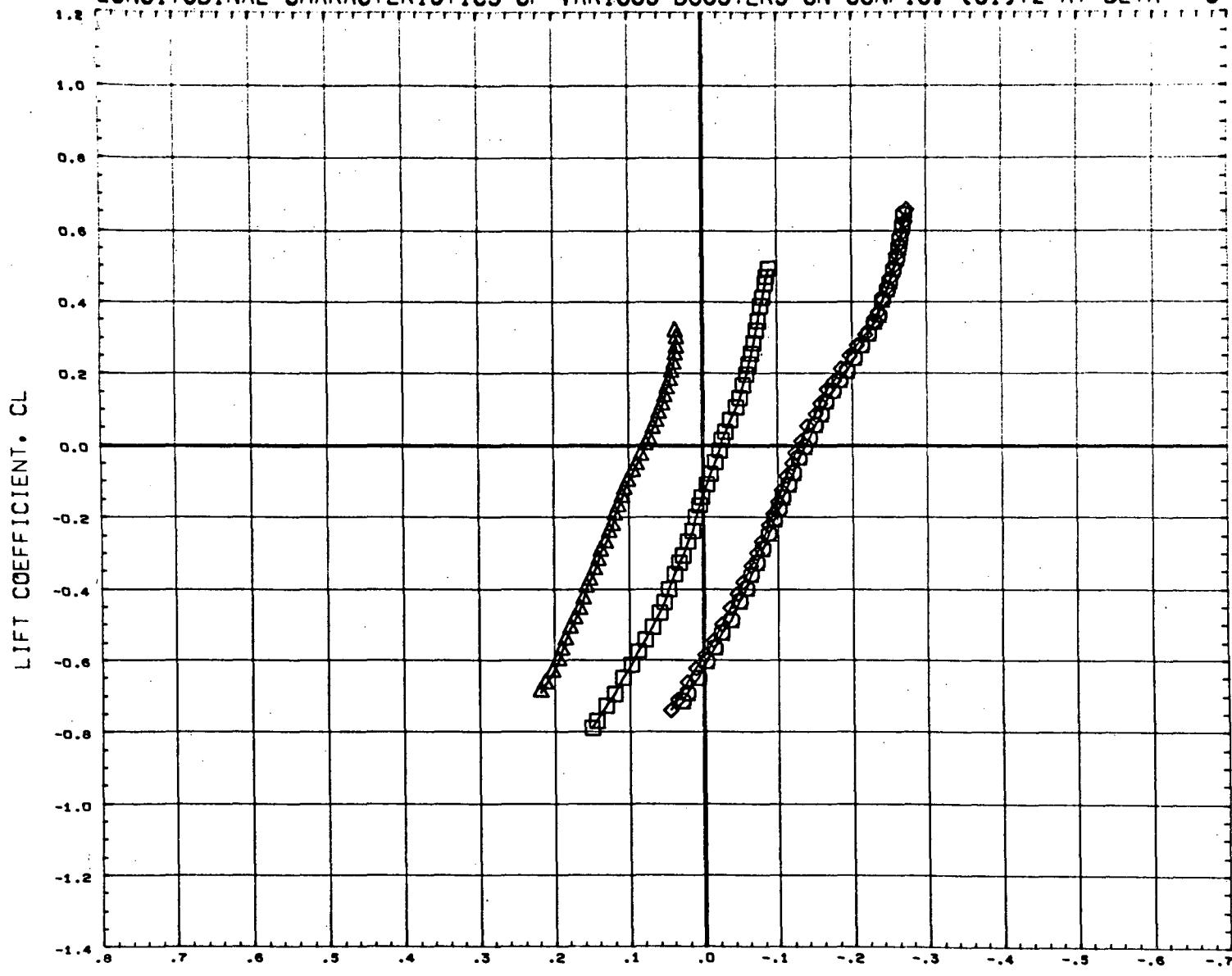


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD7452)	Q	MDAC S-222 COMPOSITE(T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7454)		MDAC S-222 COMPOSITE(T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
(CD7455)	D	MDAC S-222 COMPOSITE(T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF 882.0004 IN.
(CD7456)	□	MDAC S-222 COMPOSITE(T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

MACH 1.51

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LONGITUDINAL CHARACTERISTICS OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6



PITCHING MOMENT COEFFICIENT, CLM

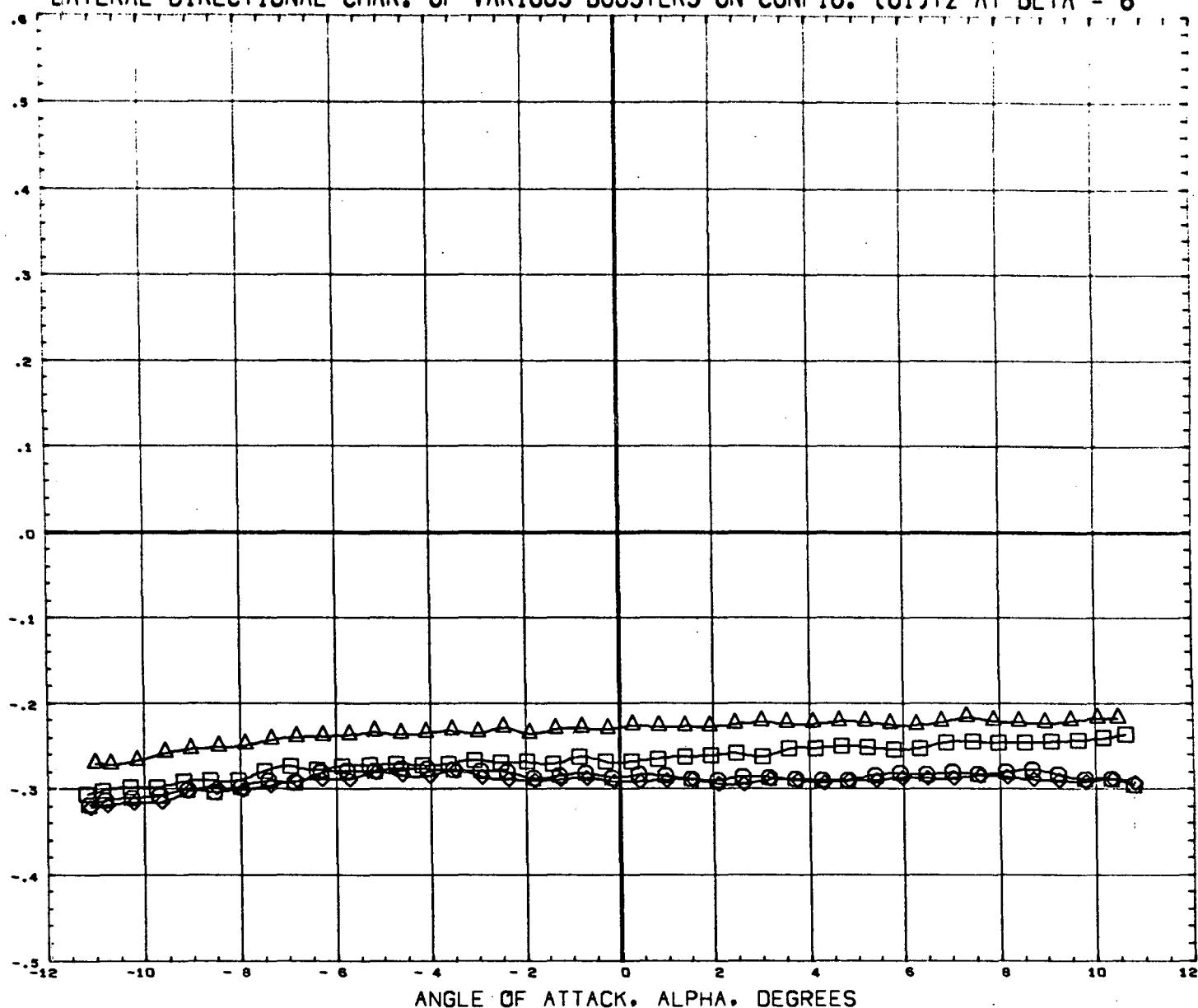
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
(CD7452)	MDAC S-222 COMPOSITE(T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7454)	MDAC S-222 COMPOSITE(T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
(CD7455)	MDAC S-222 COMPOSITE(T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF 882.0004 IN.
(CD7458)	MDAC S-222 COMPOSITE(T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 1.51

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LATERAL-DIRECTIONAL CHAR. OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6

LATERAL FORCE COEFFICIENT, CY



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(RD7452)	MDAC S-222 COMPOSITE (T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7454)	MDAC S-222 COMPOSITE (T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
(RD7455)	MDAC S-222 COMPOSITE (T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF 682.0004 IN.
(RD7458)	MDAC S-222 COMPOSITE (T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

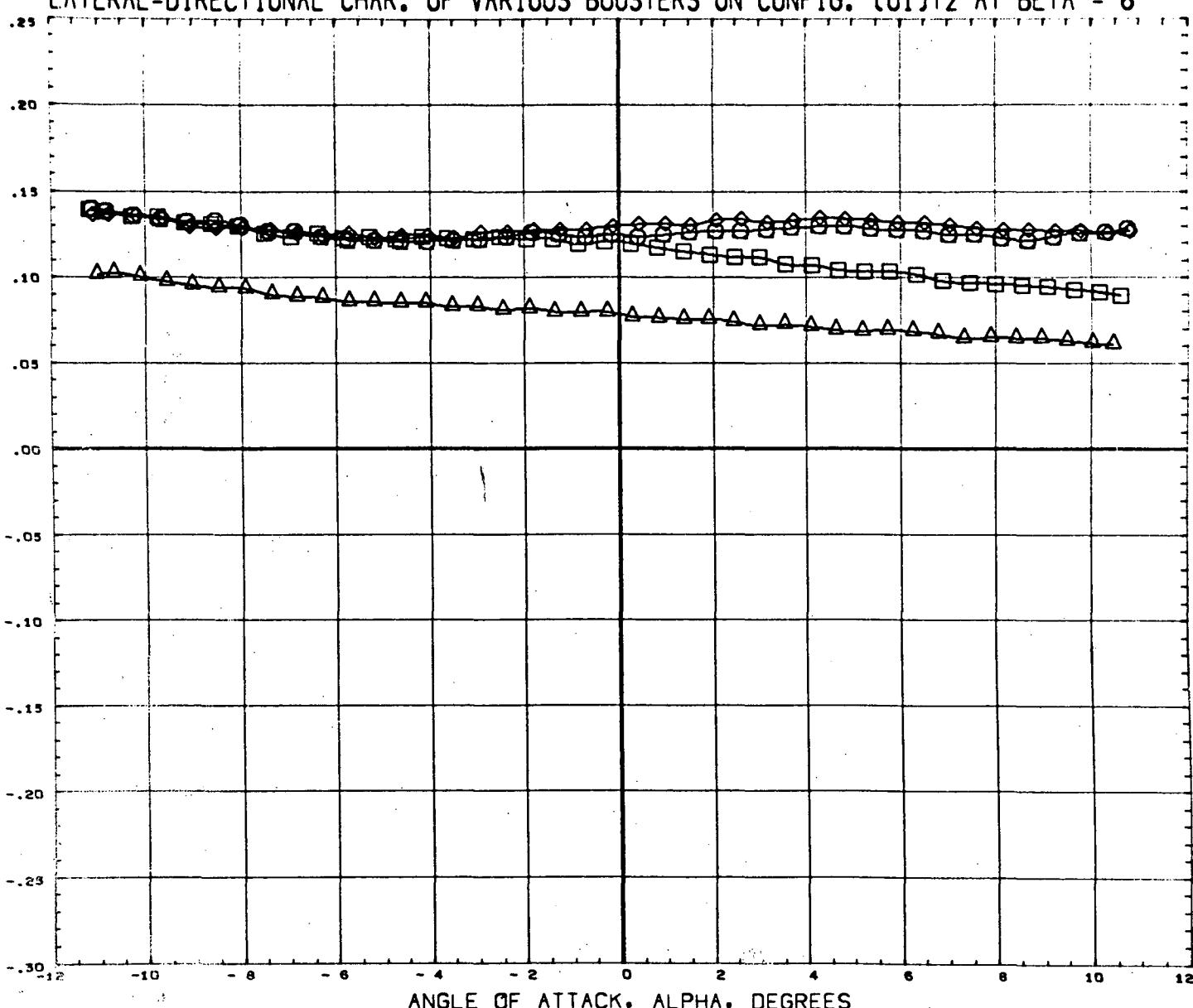
MACH

1.51

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LATERAL-DIRECTIONAL CHAR. OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6

YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(RD7452)	MDAC S-222 COMPOSITE (T-CG) (01)T2B1	6.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7454)	MDAC S-222 COMPOSITE (T-CG) (01)T2B2	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
(RD7455)	MDAC S-222 COMPOSITE (T-CG) (01)T2B3	6.000	0.000	0.000	0.000	BREF 882.0004 IN.
(RD7458)	MDAC S-222 COMPOSITE (T-CG) (01)T2B4	6.000	0.000	0.000	0.000	XMRP 557.0004 IN.
						YMRP 0.0000 IN.
						ZMRP 200.0004 IN.
						SCALE 0.0060

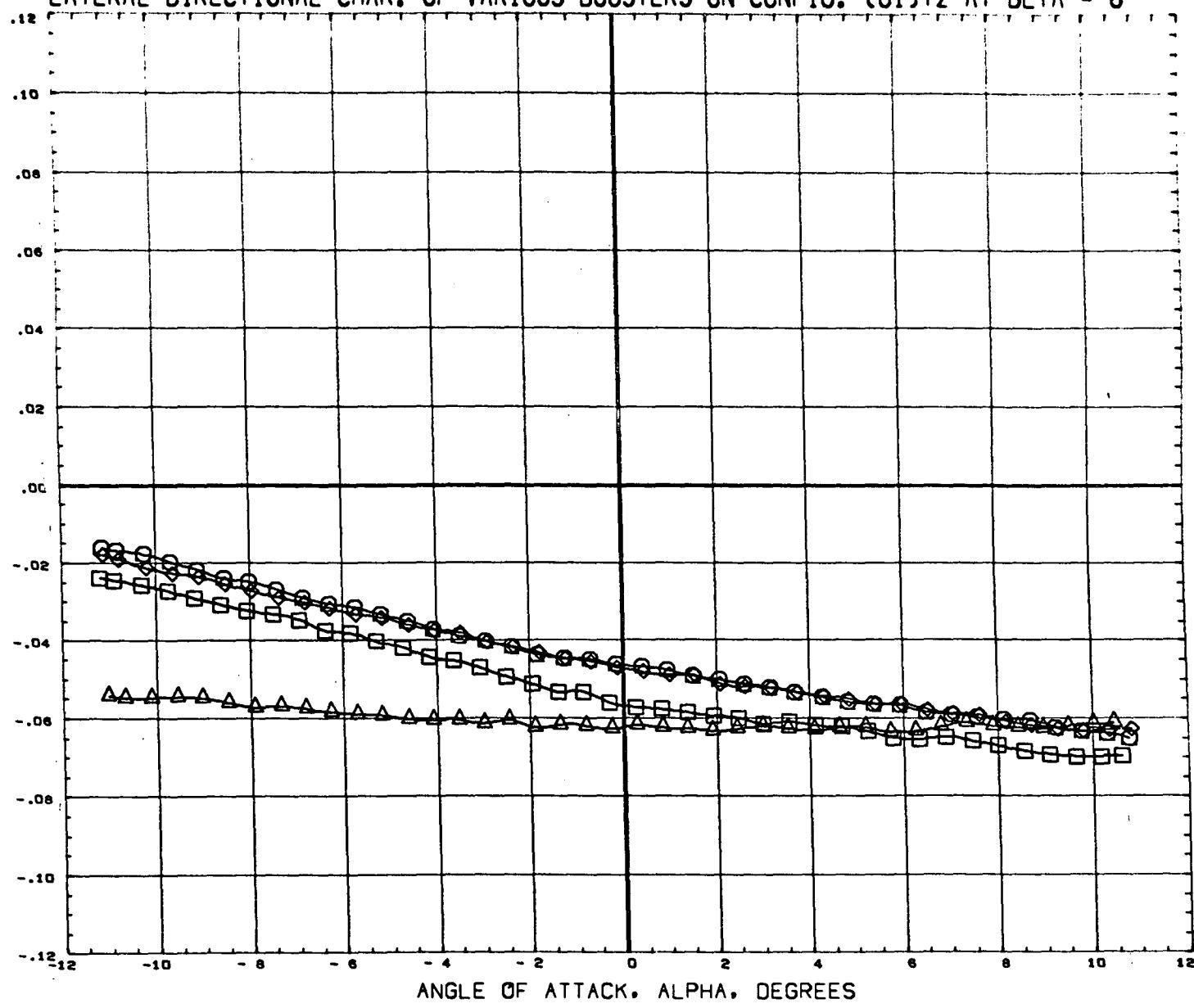
MACH

1.51

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LATERAL-DIRECTIONAL CHAR. OF VARIOUS BOOSTERS ON CONFIG. (01)T2 AT BETA = 6

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



ANGLE OF ATTACK. ALPHA, DEGREES

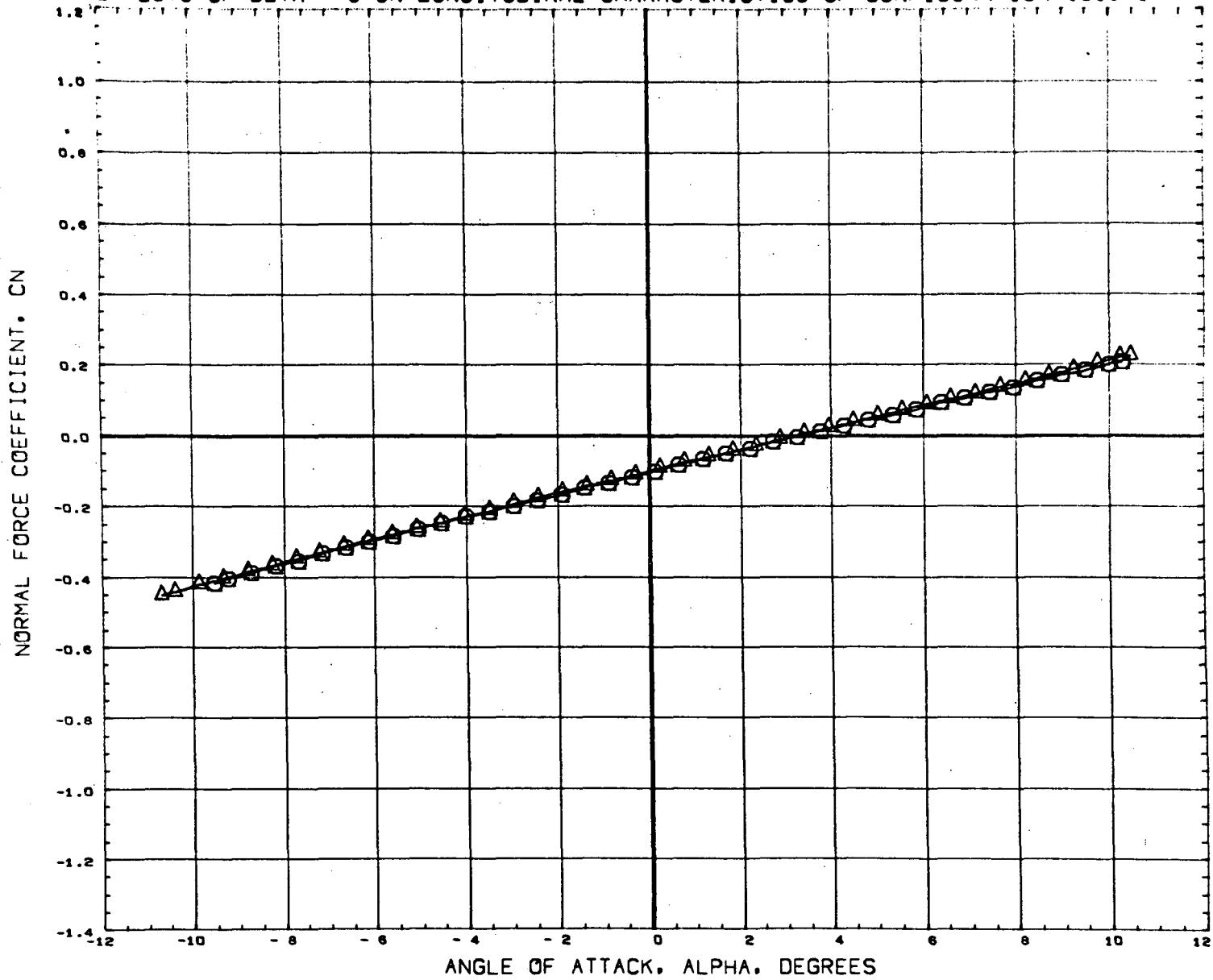
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE	INFORMATION
(RD7452)	MDAC S-222 COMPOSITE (T-CG) (01) T2B1	6.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7454)	MDAC S-222 COMPOSITE (T-CG) (01) T2E2	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
(RD7455)	MDAC S-222 COMPOSITE (T-CG) (01) T2B3	6.000	0.000	0.000	0.000	BREF	882.0004 IN.
(RD7458)	MDAC S-222 COMPOSITE (T-CG) (01) T2B4	6.000	0.000	0.000	0.000	XMRP	557.0004 IN.
						YMRP	0.0000 IN.
						ZMRP	200.0004 IN.
						SCALE	0.0060

MACH

1.51

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3

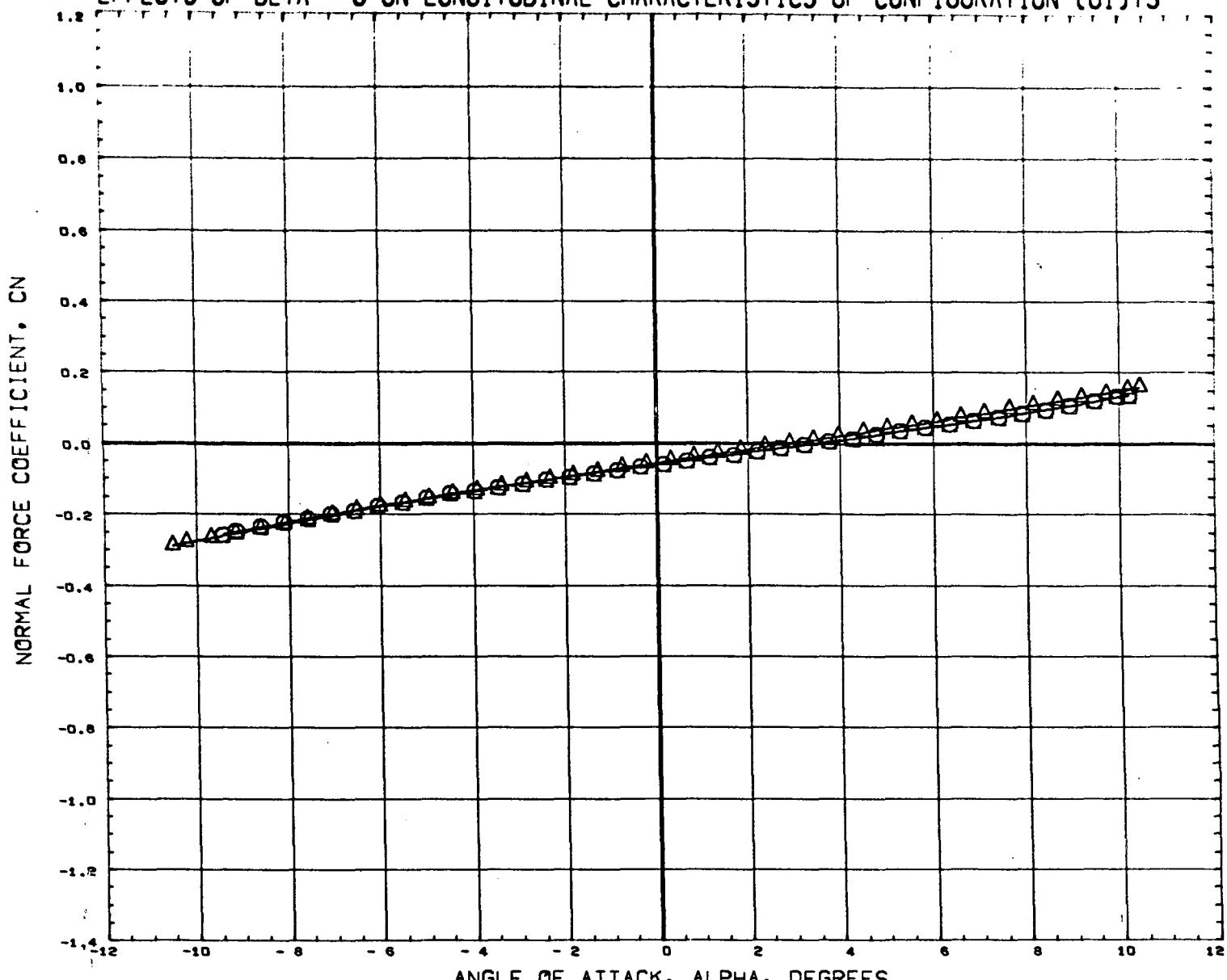


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
(CD74B3)	Q	MDAC S-222 COMPOSITE(T-CG) (O1) T3	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD74B5)	Q	MDAC S-222 COMPOSITE(T-CG) (O1) T3	6.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH 2.20

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3

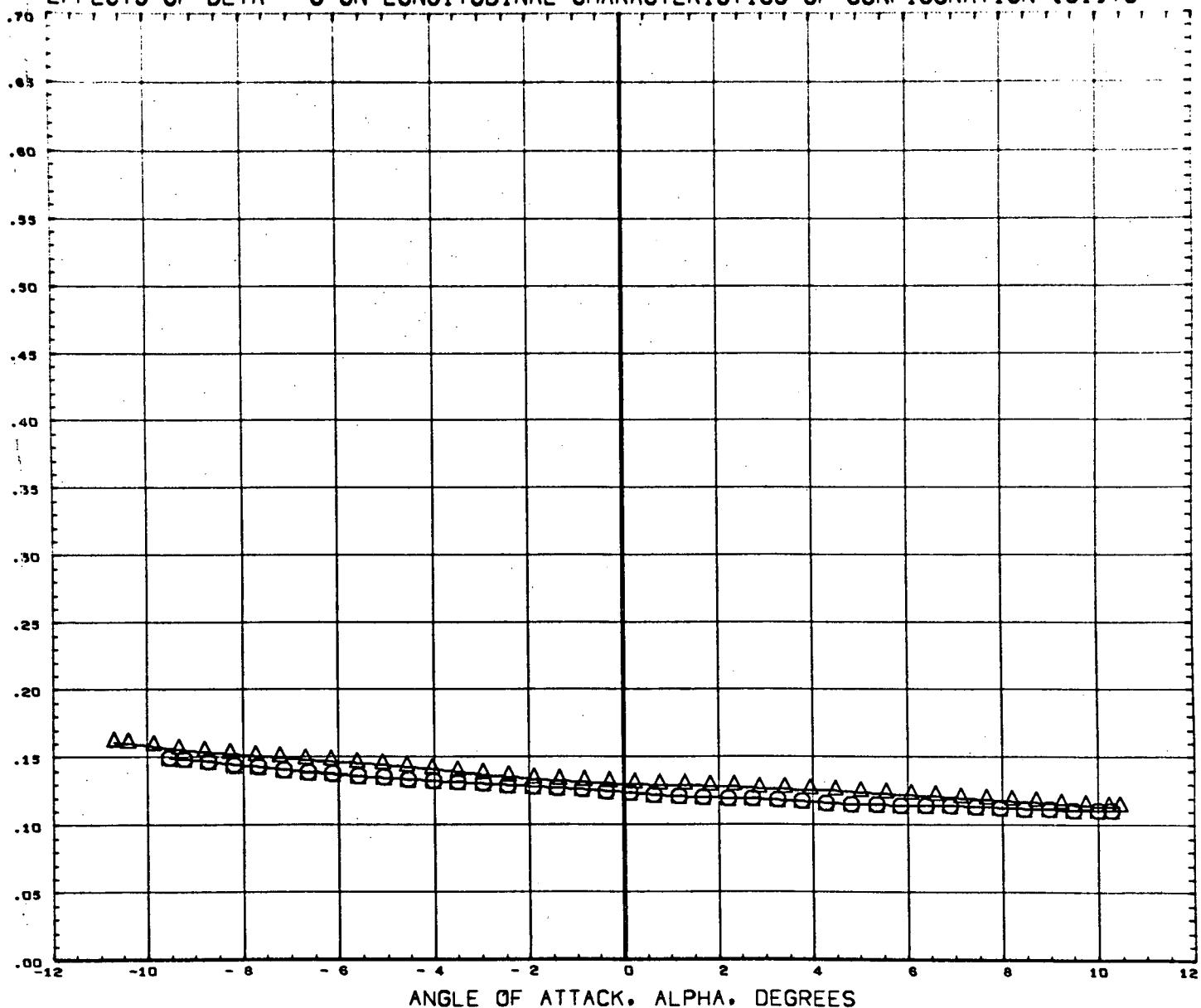


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74B3) Q MDAC S-222 COMPOSITE (T-CG) (O1)T3
 (CD74B5) A MDAC S-222 COMPOSITE (T-CG) (O1)T3

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T3

AXIAL FORCE COEFFICIENT, CA

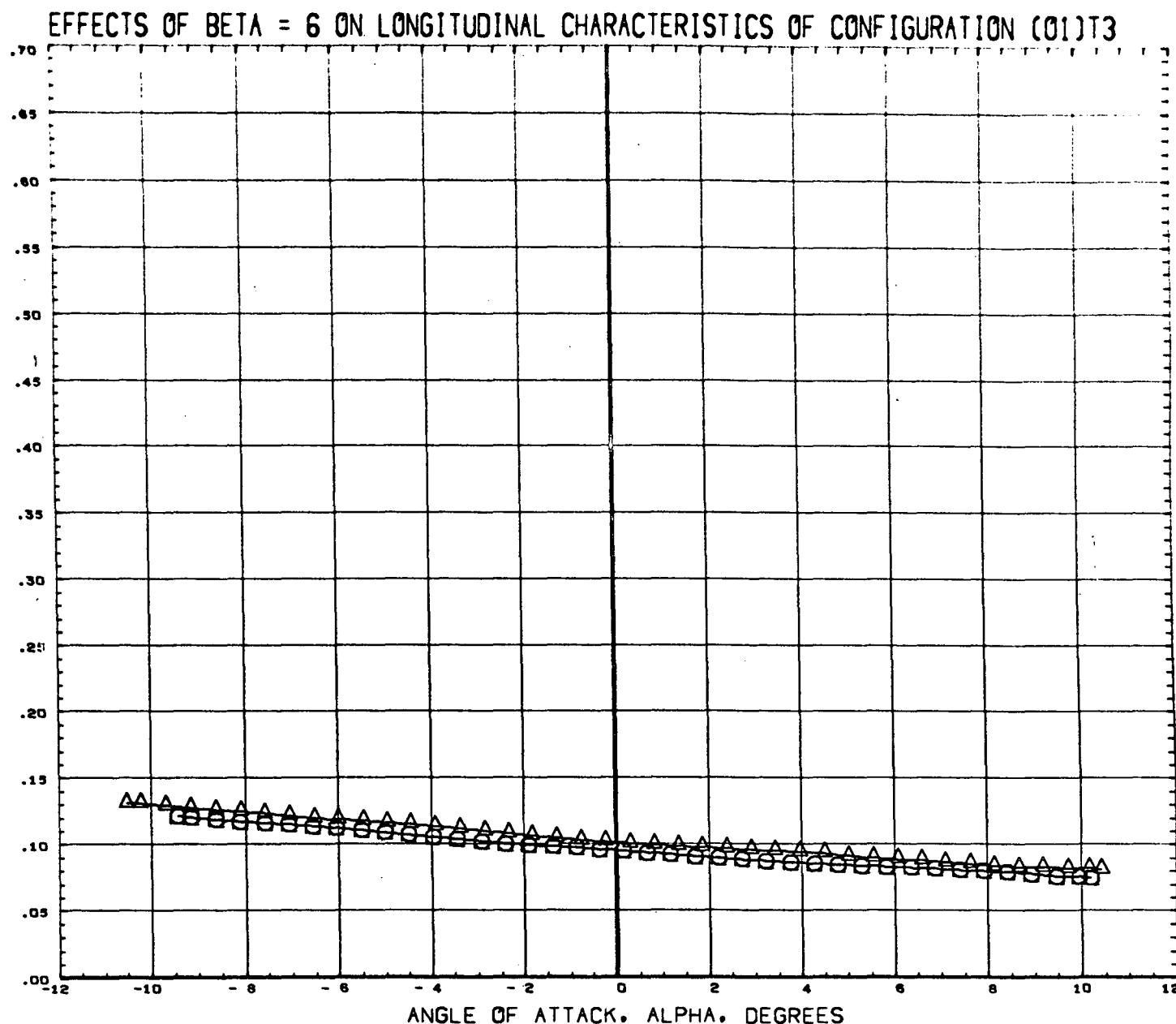


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD74B3)	MDAC S-222 COMPOSITE(T-CG) (01)T3	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD74B5)	MDAC S-222 COMPOSITE(T-CG) (01)T3	6.000	0.000	0.000	0.000	LREF 609.5034 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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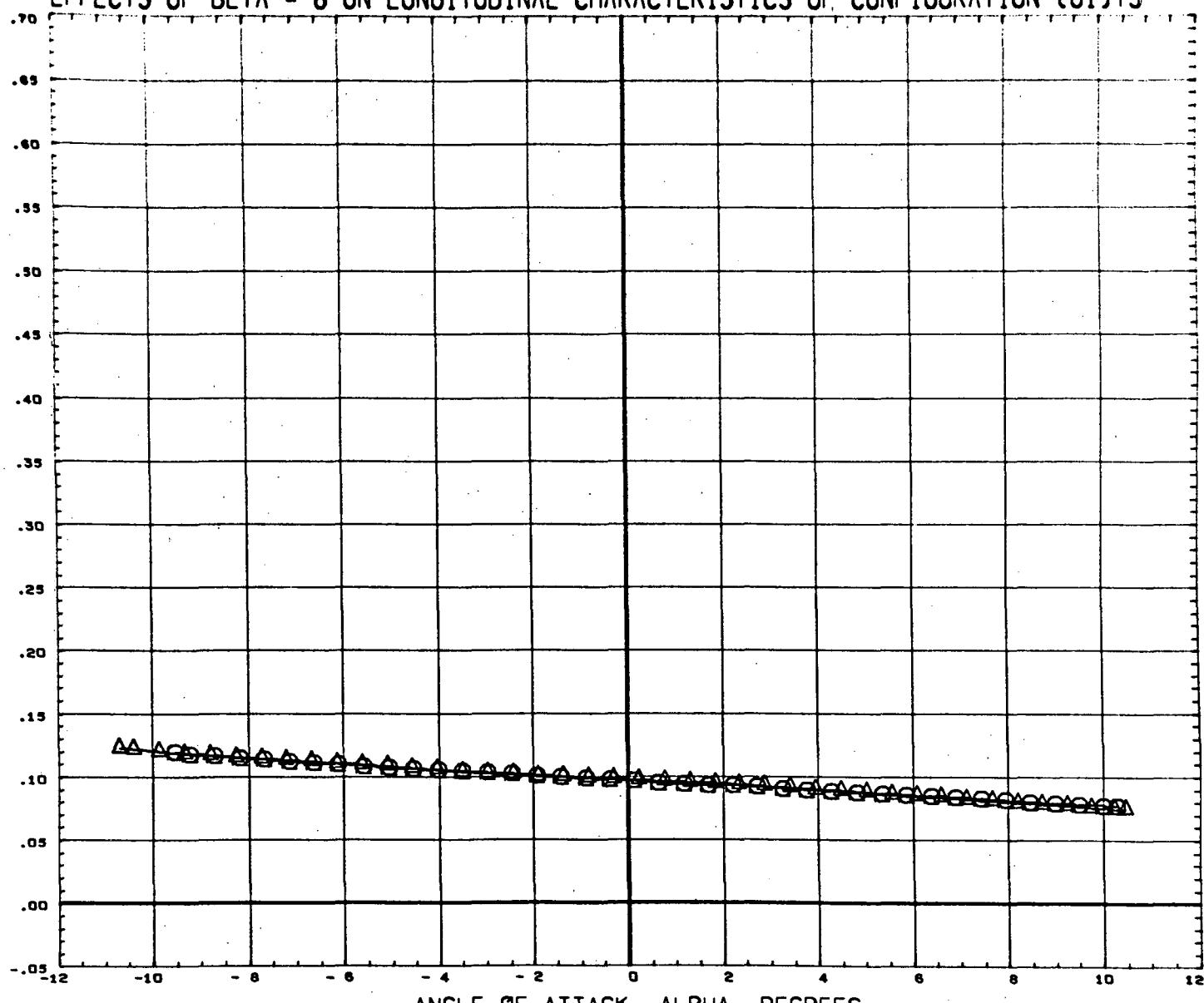
AXIAL FORCE COEFFICIENT. CA



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION	
						SREF	3155.3040
(CD7483)	MDAC S-222 COMPOSITE(T-CG) (O1)T3	0.000	0.000	0.000	0.000	LREF	609.5004
(CD7485)	MDAC S-222 COMPOSITE(T-CG) (O1)T3	6.000	0.000	0.000	0.000	BREF	682.0004
						XMRP	557.0004
						YMRP	0.0000
						ZMRP	200.0004
						SCALE	0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T3

FOREBODY AXIAL FORCE COEFFICIENT, CAF

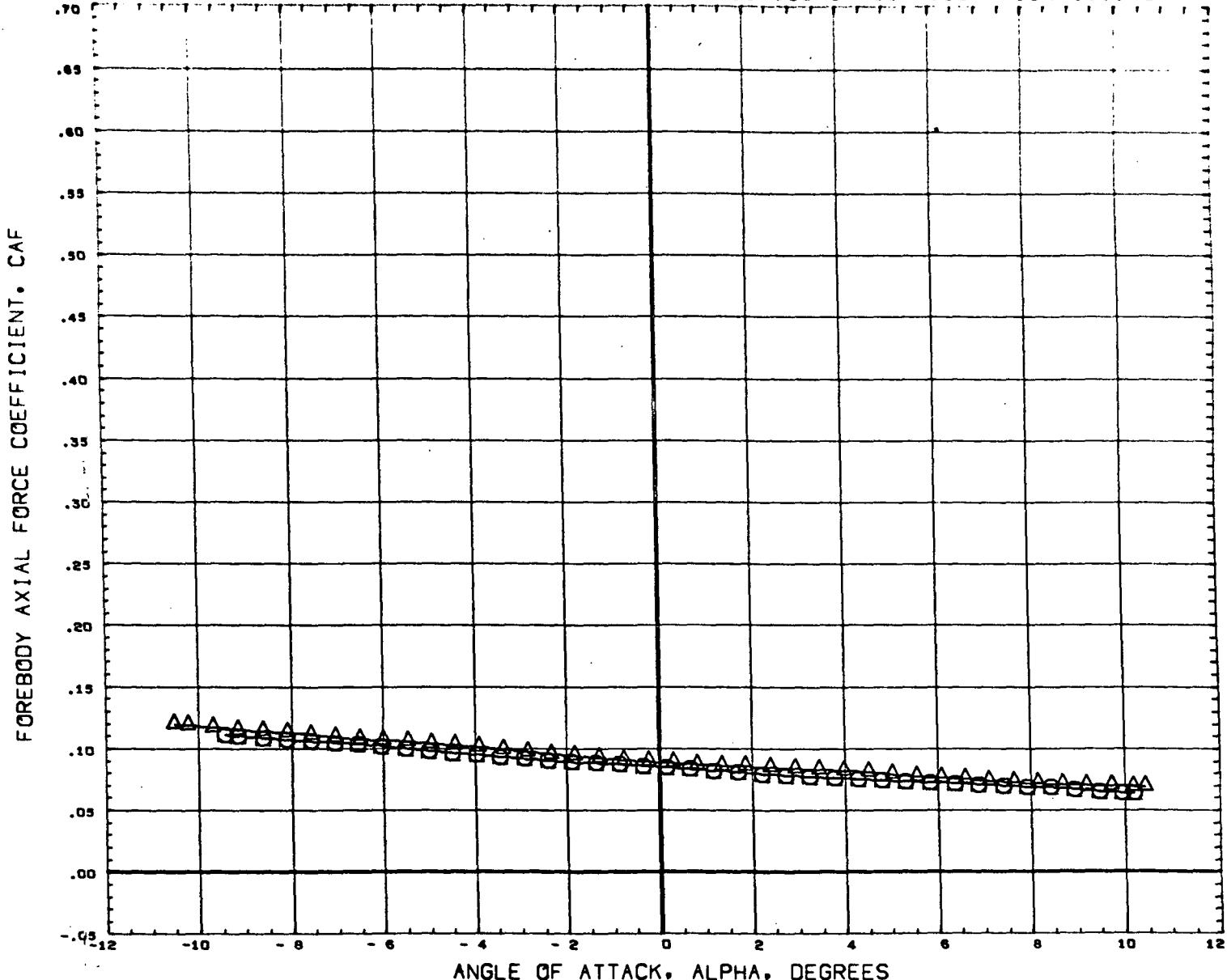


DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7483)	Q	MDAC S-222 COMPOSITE (T-CG) (01)T3	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7485)	Q	MDAC S-222 COMPOSITE (T-CG) (01)T3	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 2.20

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3



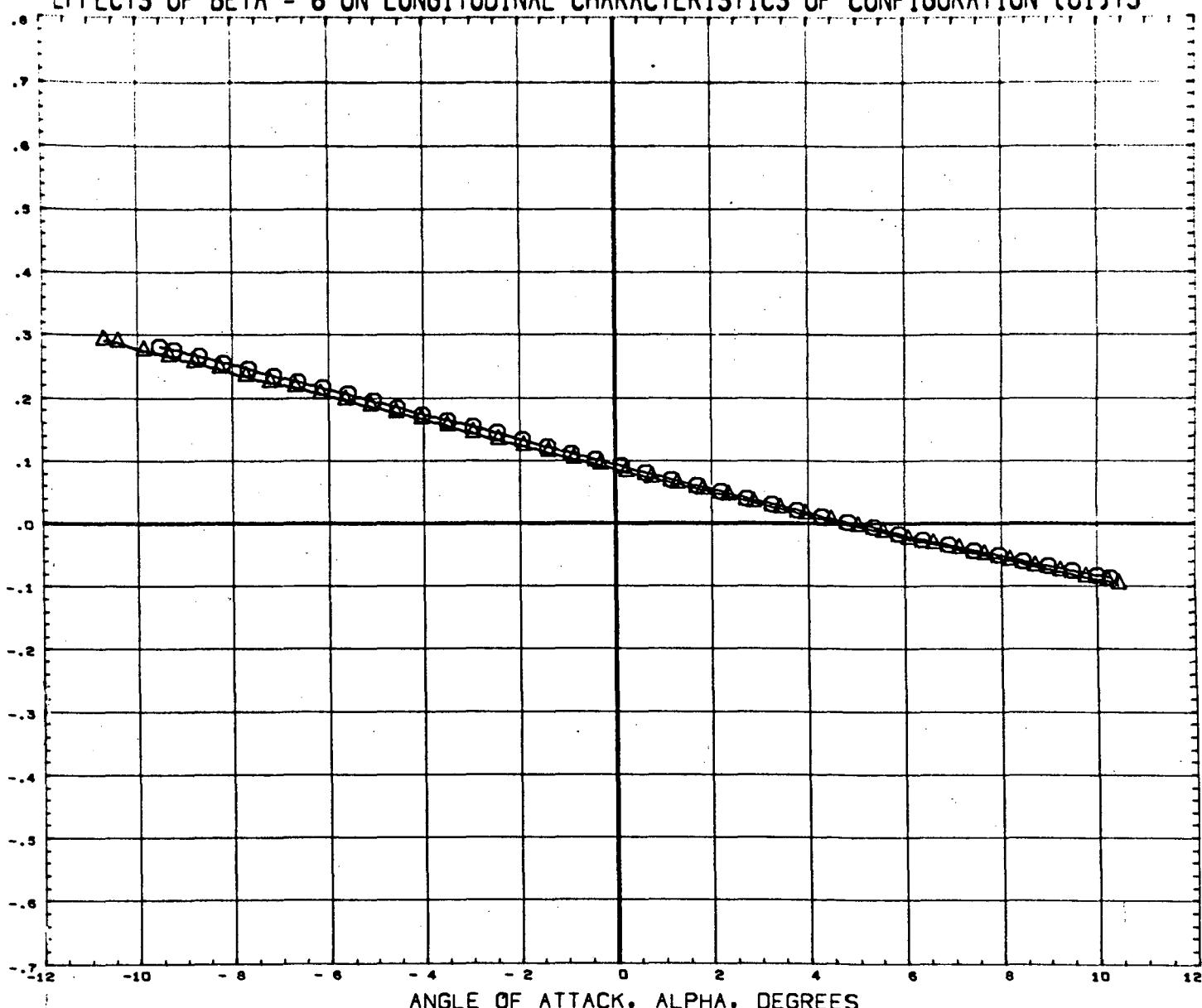
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE	INFORMATION
(CD74B3)	Δ	MDAC S-222 COMPOSITE (T-CG) (O1)T3	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD74B5)	●	MDAC S-222 COMPOSITE (T-CG) (O1)T3	6.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH 4.47

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3

PITCHING MOMENT COEFFICIENT, CLM



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7483) MDAC S-222 COMPOSITE (T-CG) (O1) T3
 (CD7485) MDAC S-222 COMPOSITE (T-CG) (O1) T3

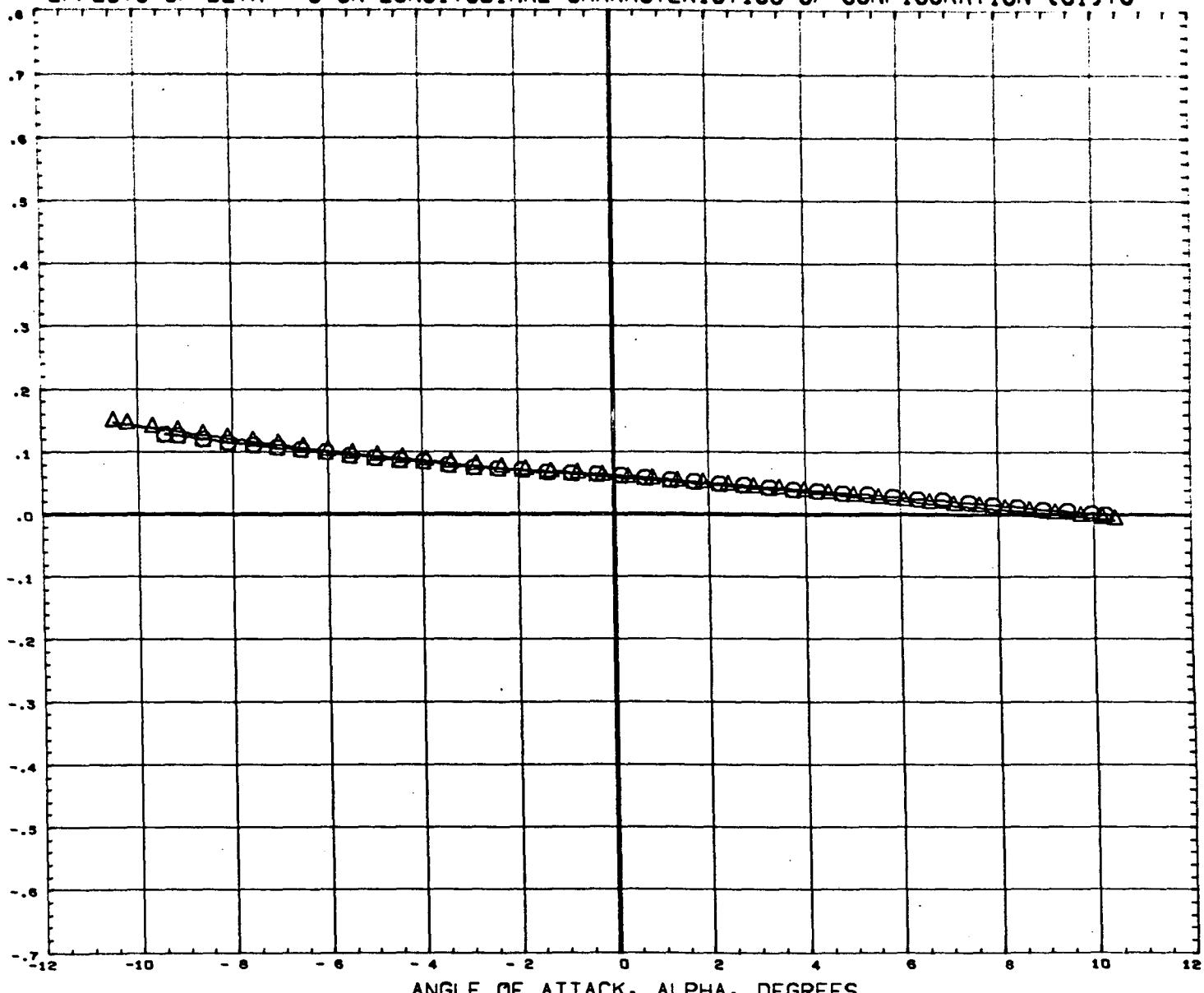
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE	INFORMATION
0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF	609.5004 IN.
				BREF	882.0004 IN.
				XMRP	557.0004 IN.
				YMRP	0.0000 IN.
				ZMRP	200.0004 IN.
				SCALE	0.0060

MACH 2.20

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T3

PITCHING MOMENT COEFFICIENT, CLM



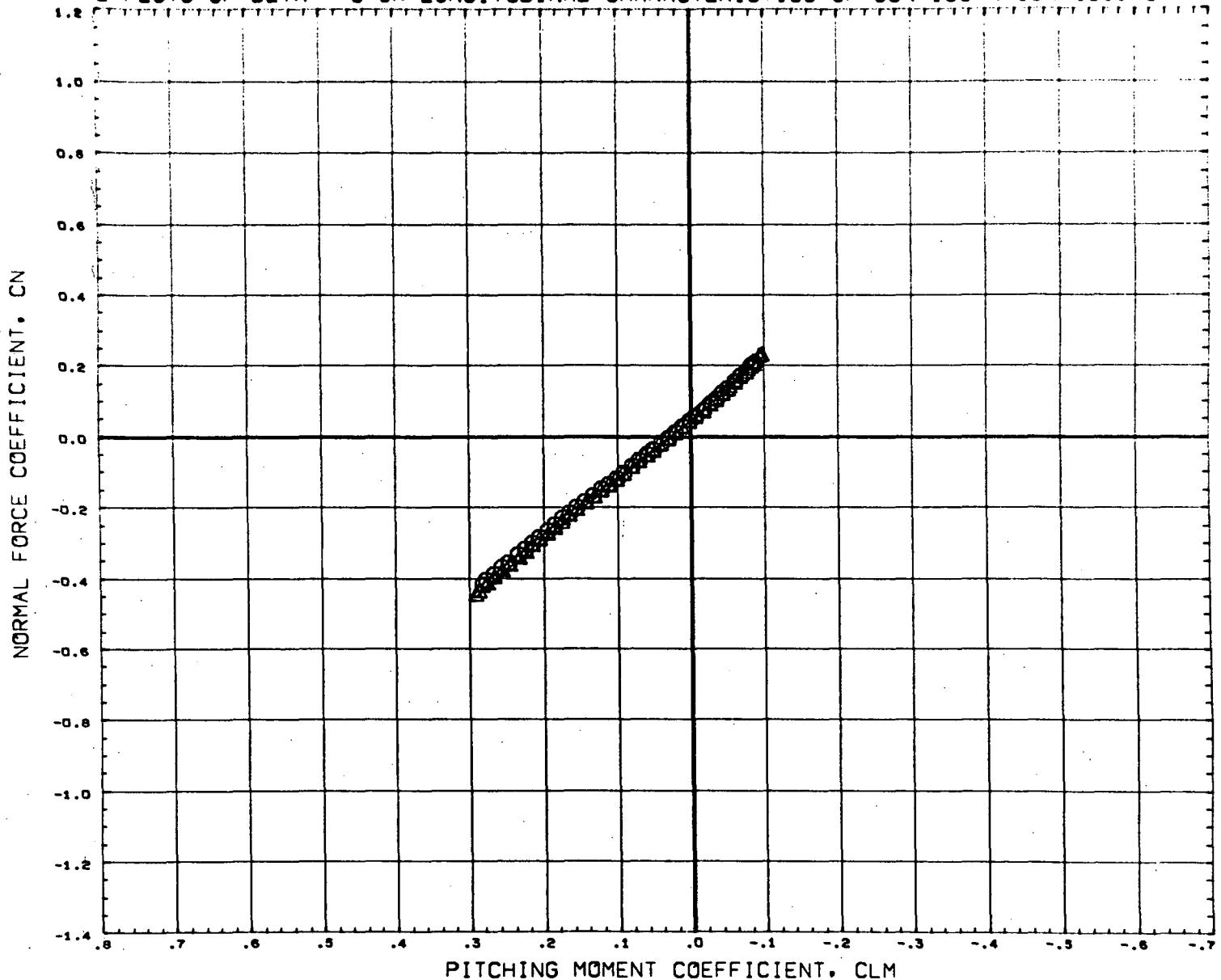
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7483) Q MDAC S-222 COMPOSITE(T-CG) (01)T3
 (CD7485) A MDAC S-222 COMPOSITE(T-CG) (01)T3

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 4.47

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T3

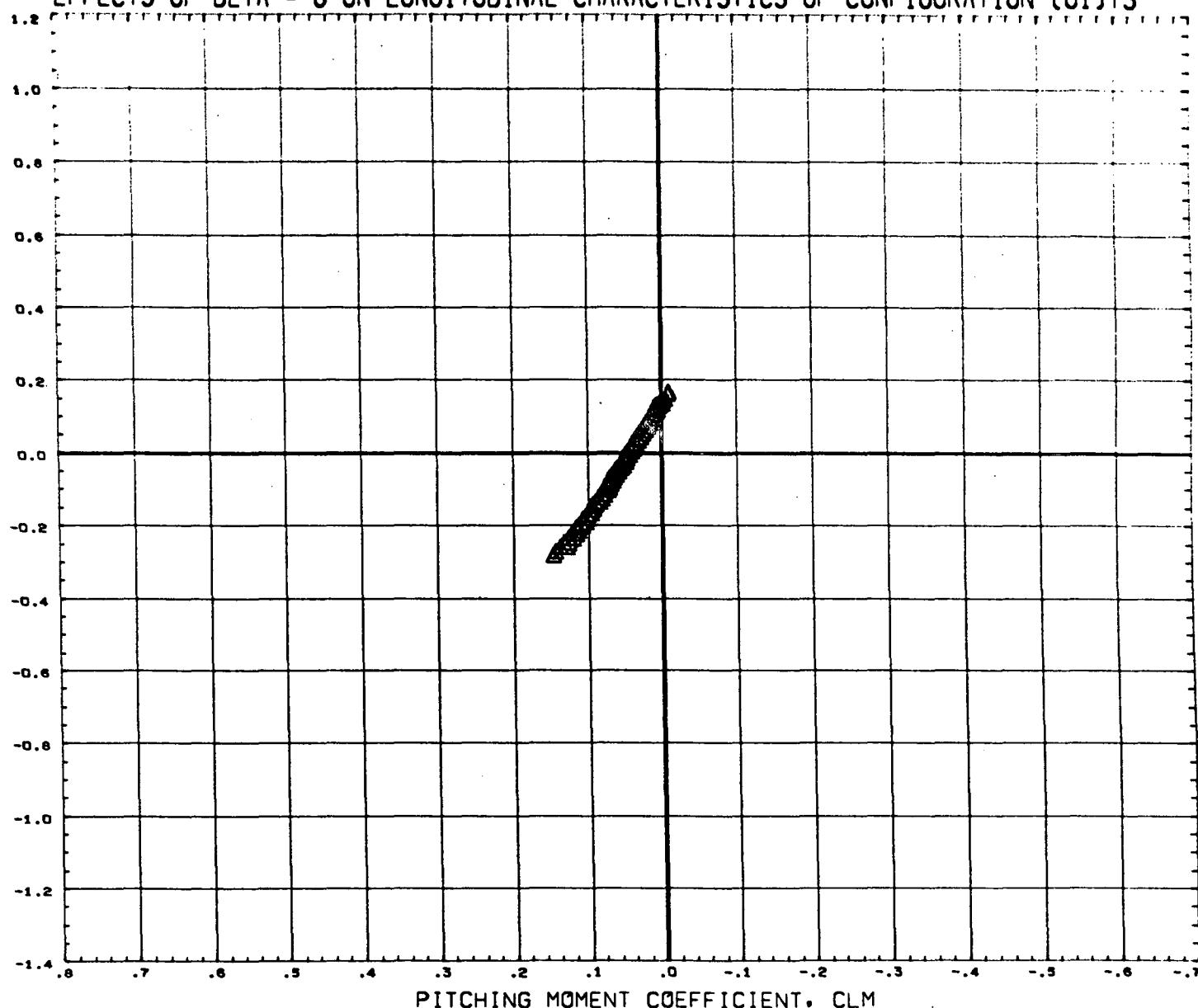


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74B3) MDAC S-222 COMPOSITE(T-CG) (01)T3
 (CD74B5) MDAC S-222 COMPOSITE(T-CG) (01)T3

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3

NORMAL FORCE COEFFICIENT, CN

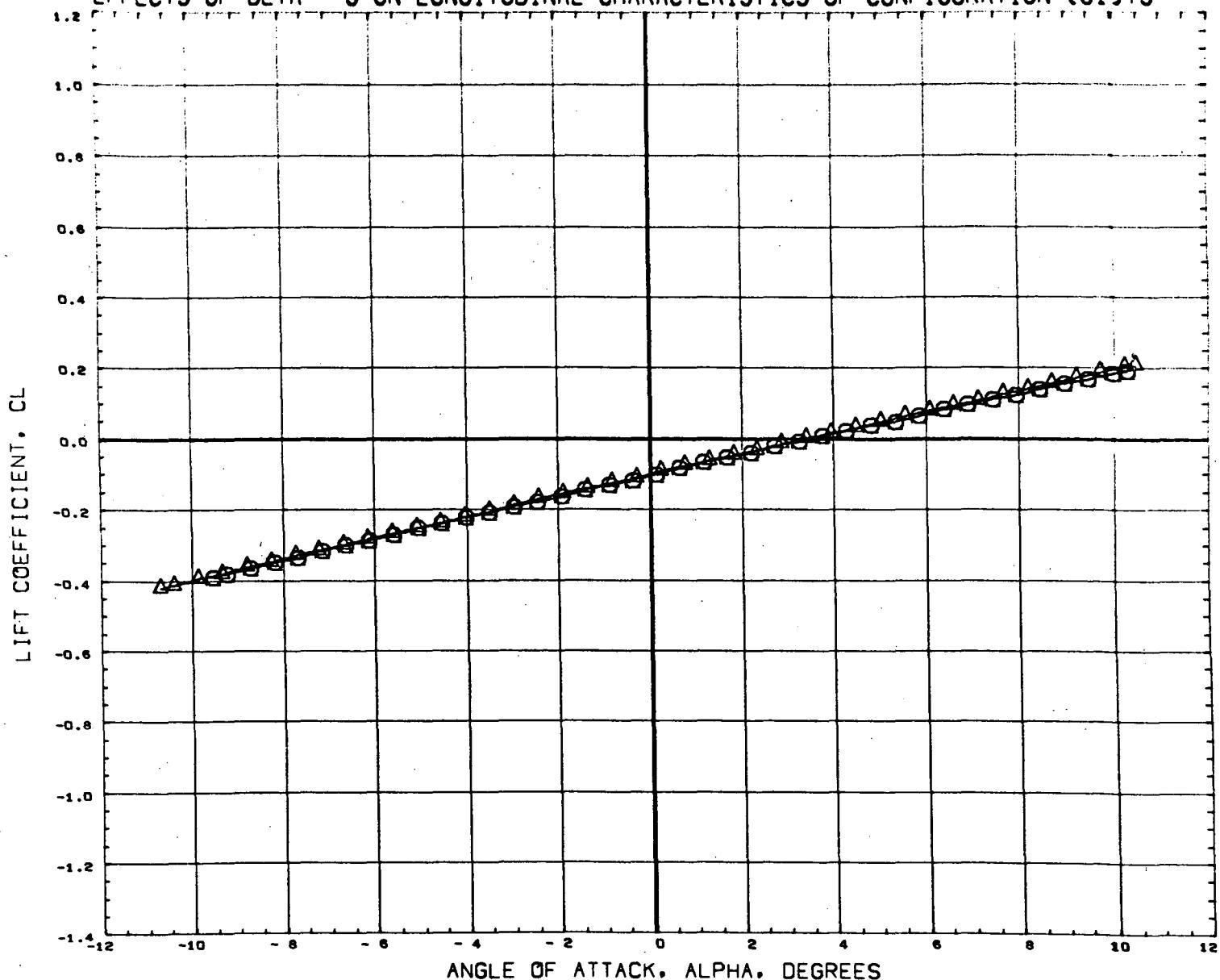


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	ATLRON	RUDDER	REFERENCE INFORMATION
(CD74B3)	MDAC S-222 COMPOSITE(T-CG) (O1)T3	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD74B5)	MDAC S-222 COMPOSITE(T-CG) (O1)T3	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 662.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH 4.47

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EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7483) MDAC S-222 COMPOSITE(T-CG) (O1)T3
 (CD7485) MDAC S-222 COMPOSITE(T-CG) (O1)T3

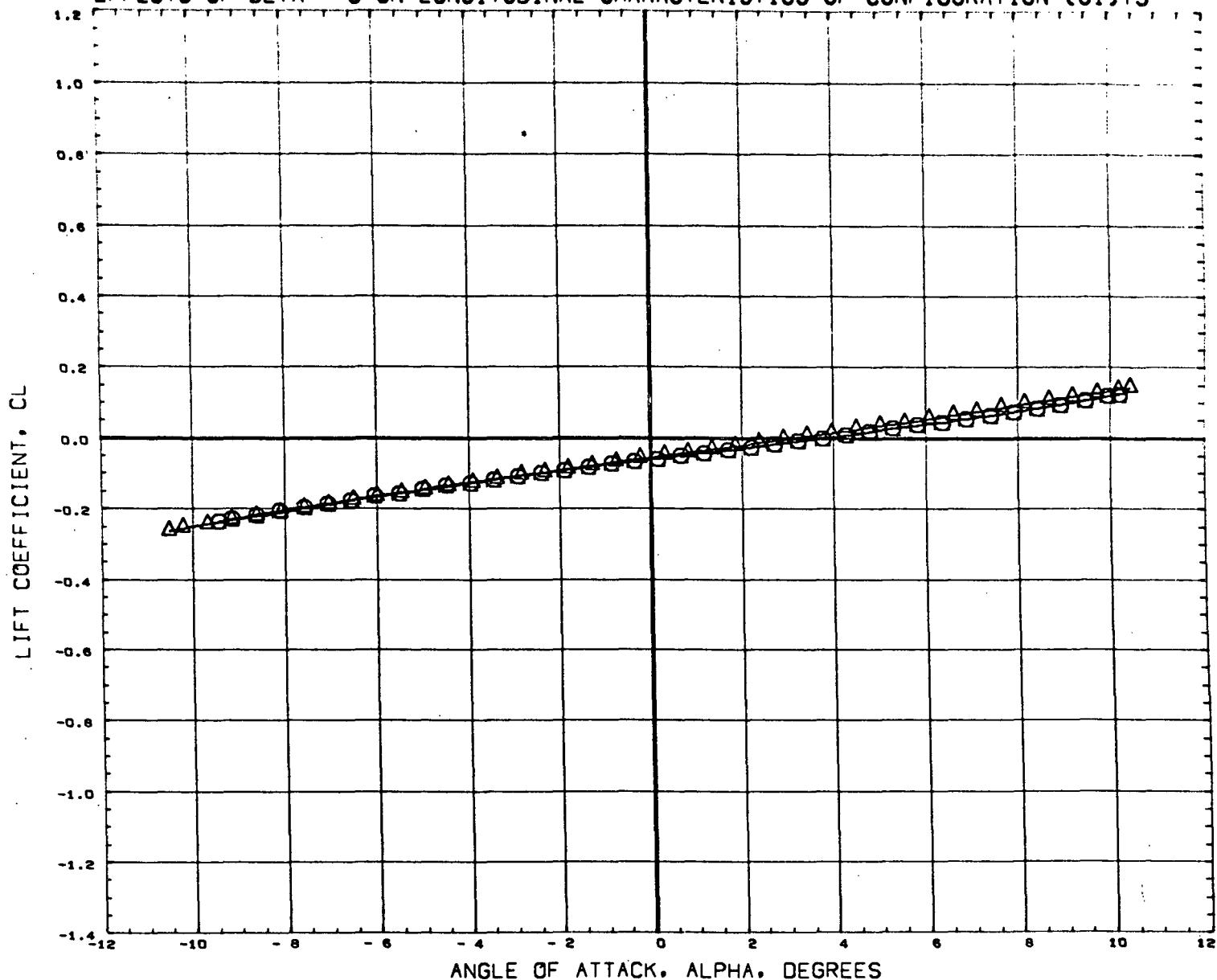
BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 682.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH

2.20

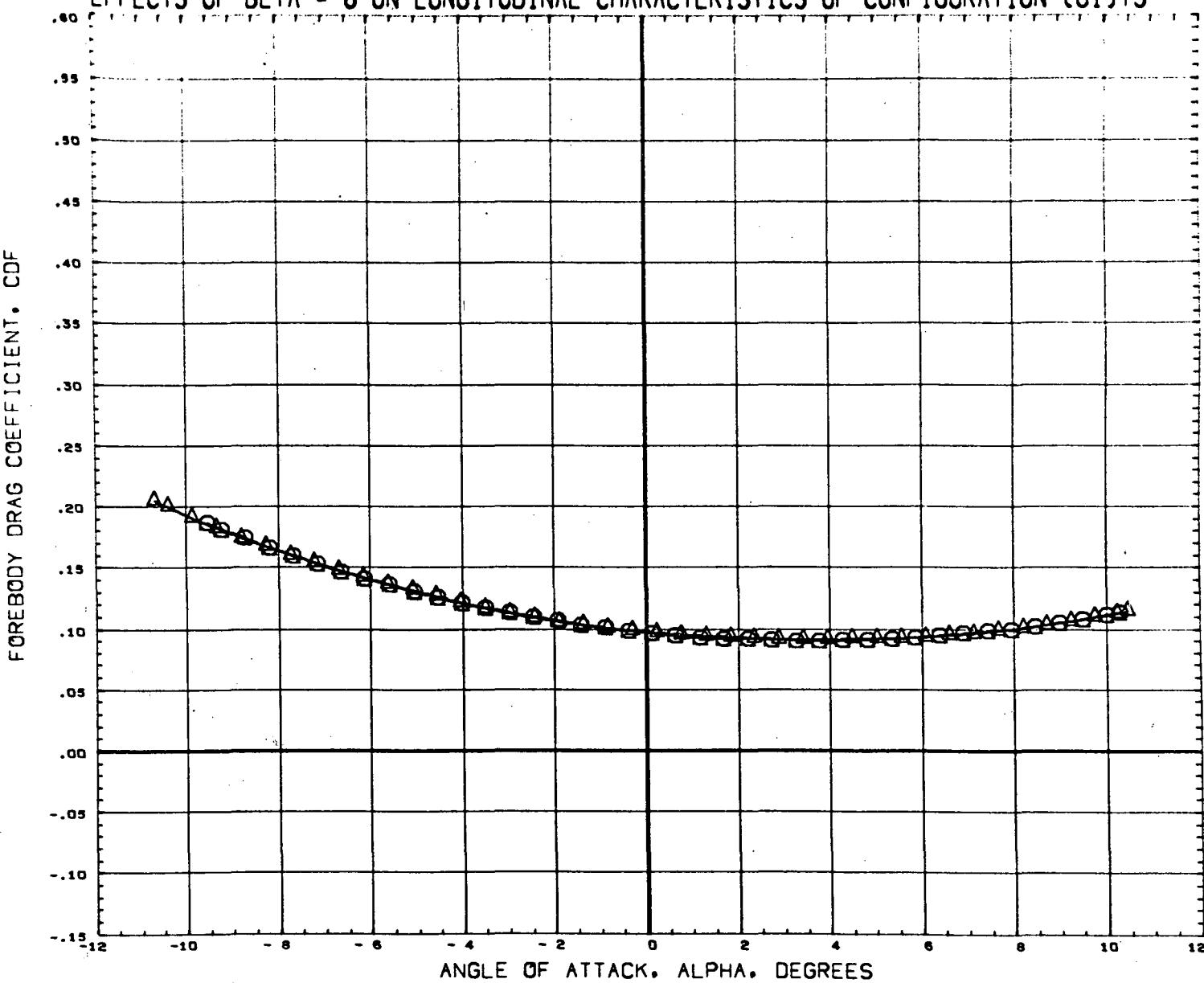
PAGE 463

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T3



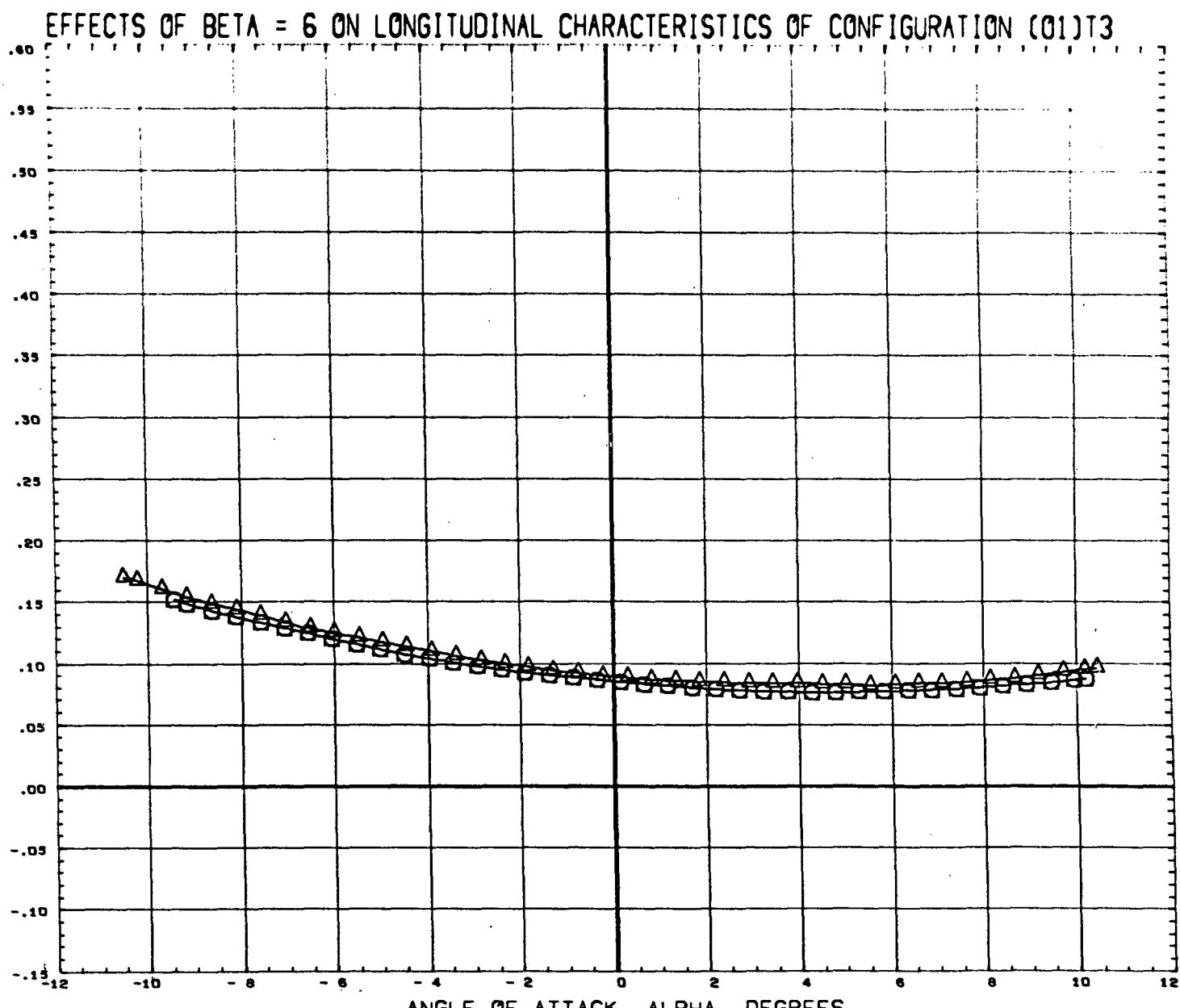
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7483)	MDAC S-222 COMPOSITE (T-CG) (01) T3	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7485)	MDAC S-222 COMPOSITE (T-CG) (01) T3	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 662.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T3



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7453)	Q	MDAC S-222 COMPOSITE (T-CG) (01) T3	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7485)	Q	MDAC S-222 COMPOSITE (T-CG) (01) T3	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
							BREF 882.0004 IN.
							XMRP 557.0004 IN.
							YMRP 0.0000 IN.
							ZMRP 200.0004 IN.
							SCALE 0.0060

FOREBODY DRAG COEFFICIENT, CDF

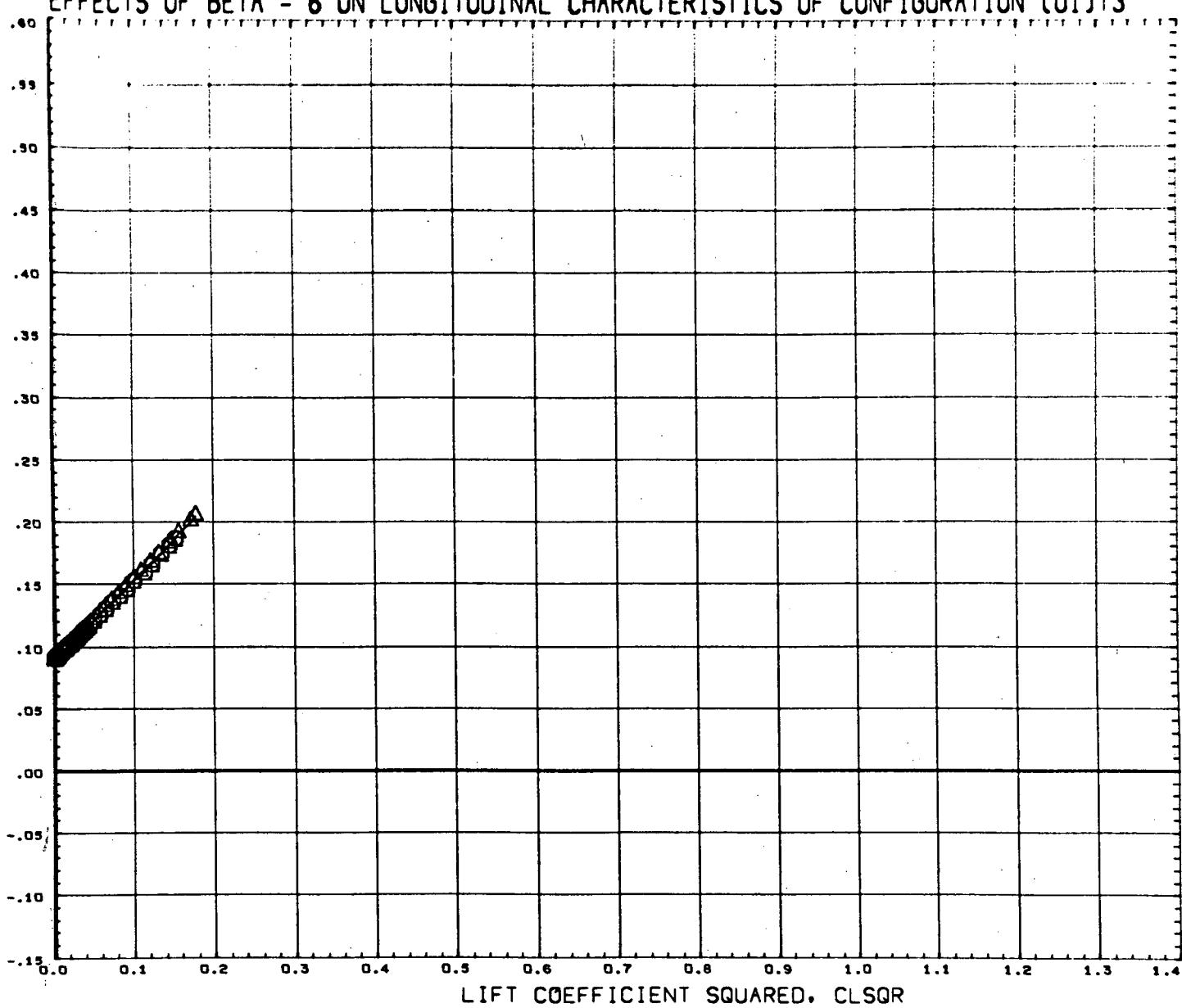


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(CD7483)	MDAC S-222 COMPOSITE(T-CG) (O1) T3	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD7485)	MDAC S-222 COMPOSITE(T-CG) (O1) T3	6.000	0.000	0.000	0.000	LREF	609.5004 IN.

BREF 882.0004 IN.
XMRP 557.0004 IN.
YMRP 0.0000 IN.
ZMRP 200.0004 IN.
SCALE 0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3

FOREBODY DRAG COEFFICIENT, CDF

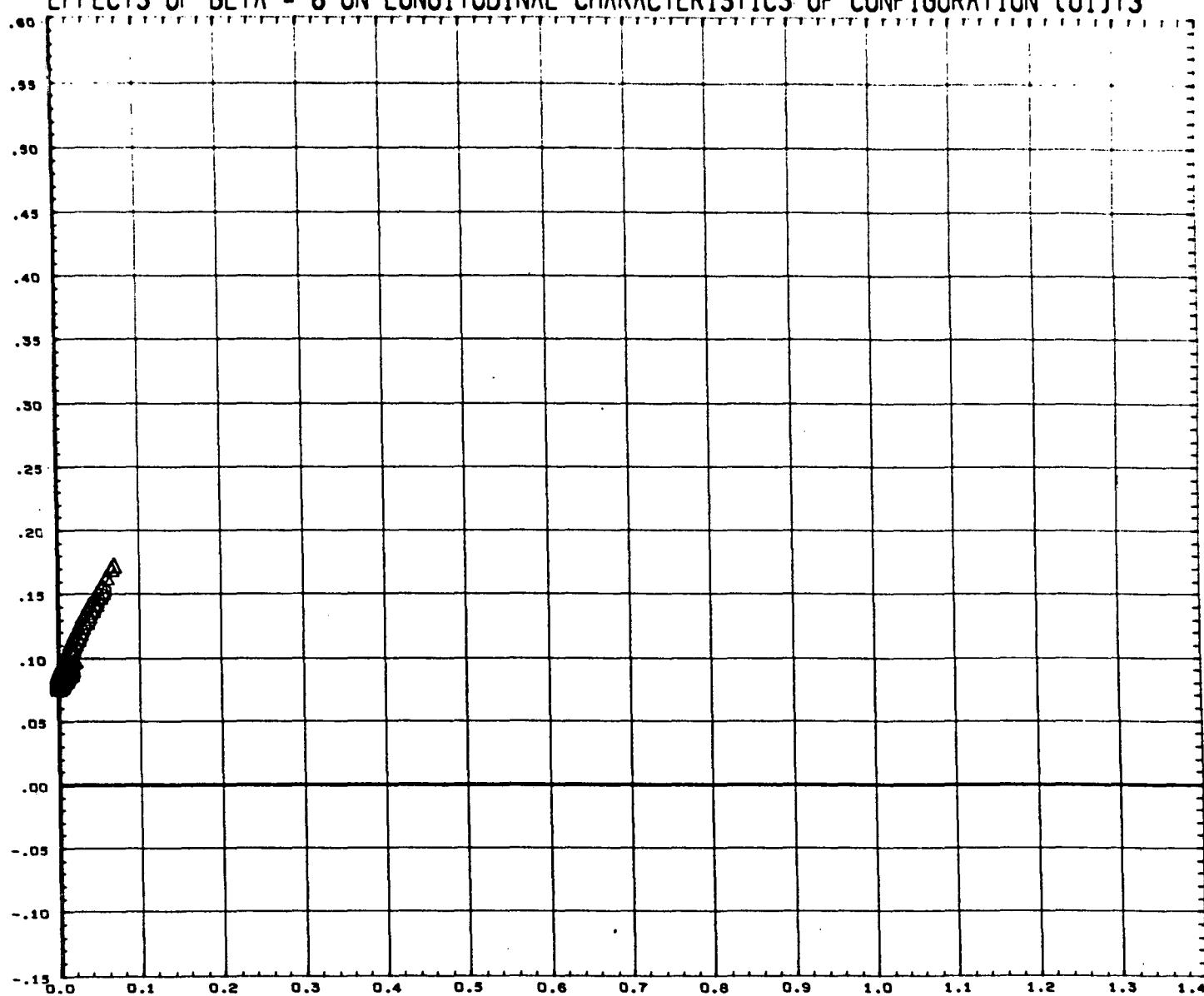


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74B3) MDAC S-222 COMPOSITE(T-CG) (O1)T3
 (CD74B5) MDAC S-222 COMPOSITE(T-CG) (O1)T3

BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF	609.5004 IN.
				BREF	882.0004 IN.
				XMRP	557.0004 IN.
				YMRP	0.0000 IN.
				ZMRP	200.0004 IN.
				SCALE	0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3

FOREBODY DRAG COEFFICIENT - CDF



LIFT COEFFICIENT SQUARED, CL²

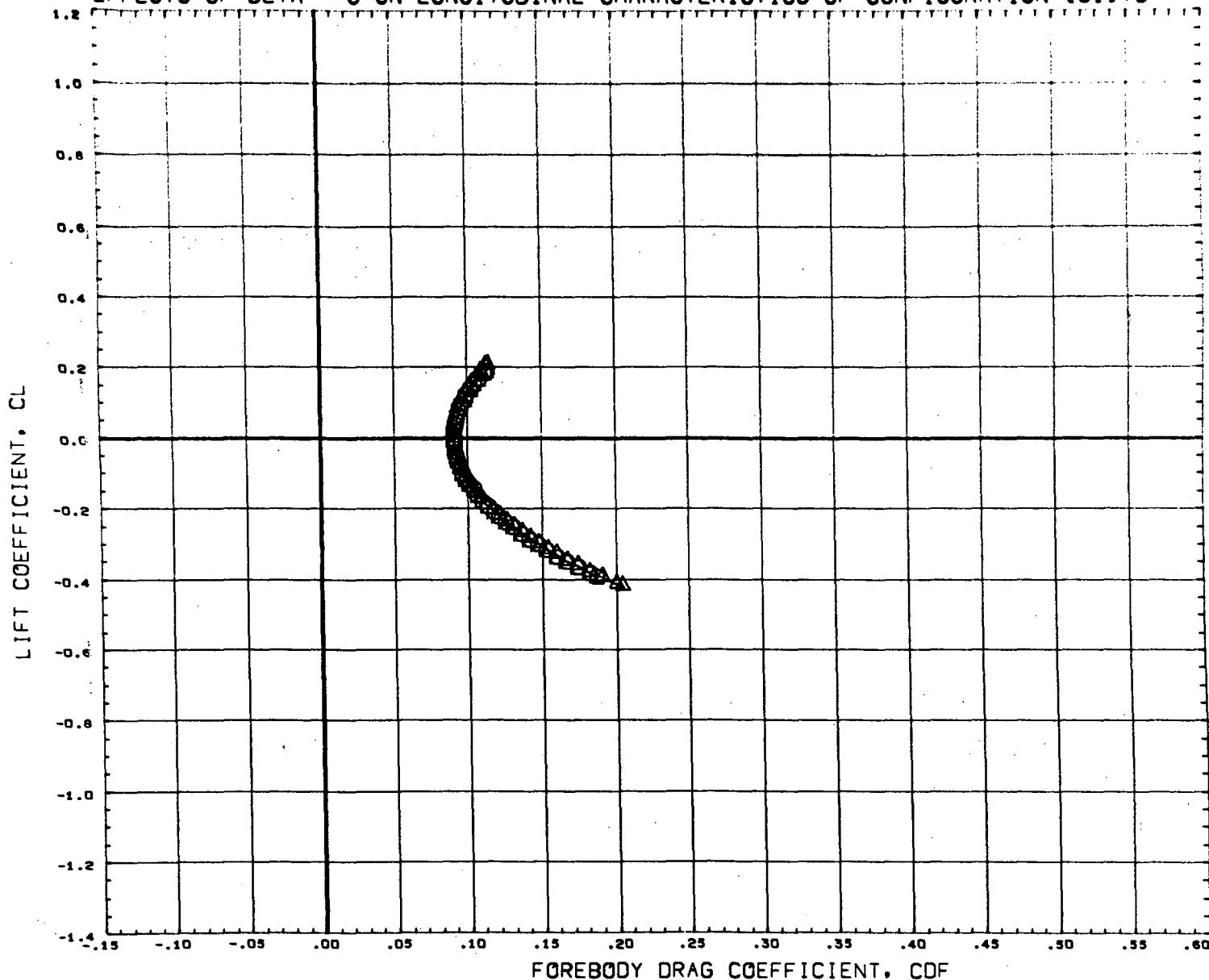
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(CD7483)	MDAC S-222 COMPOSITE(T-CG) (O1)T3	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7485)	MDAC S-222 COMPOSITE(T-CG) (O1)T3	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 682.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

MACH

4.47

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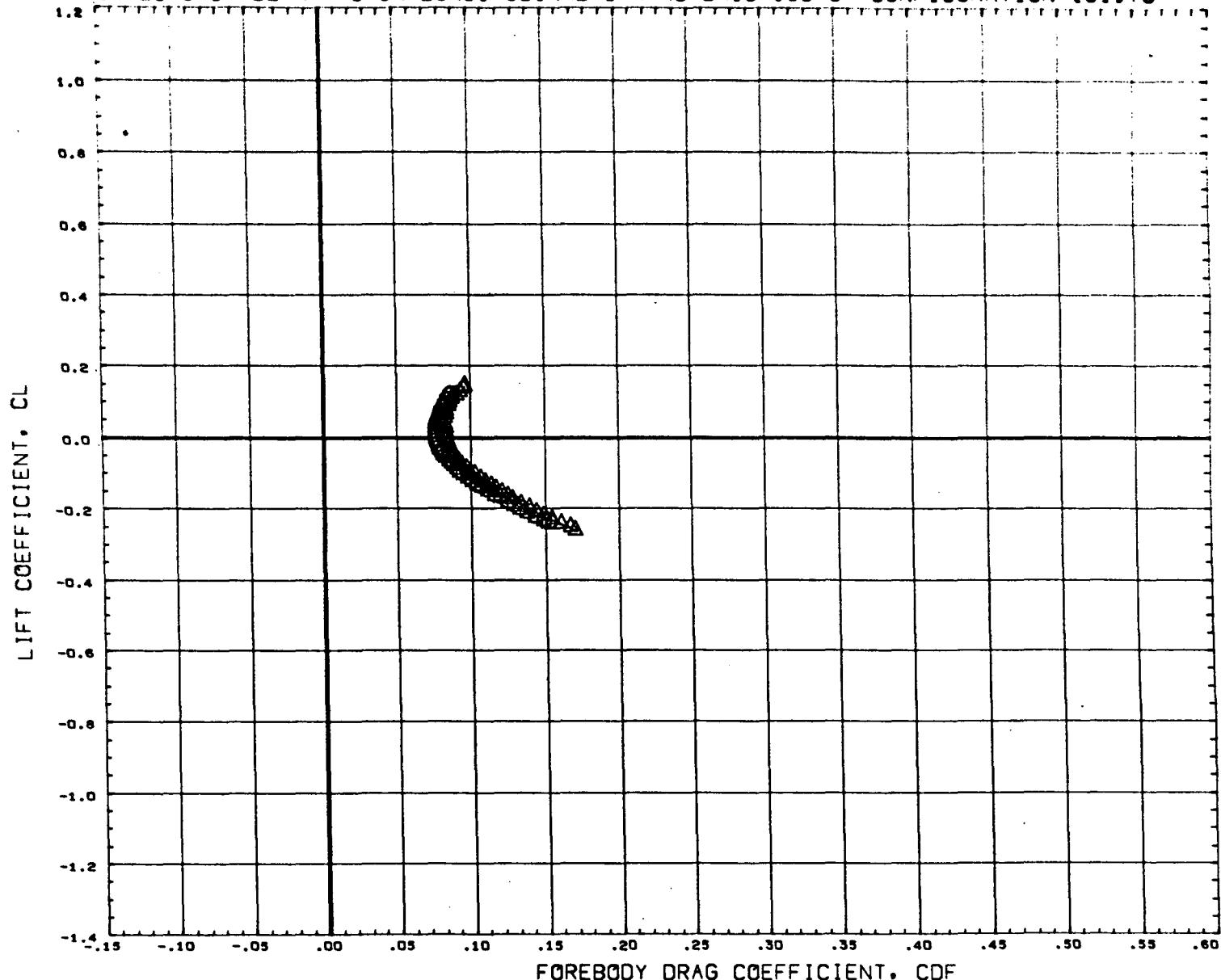
EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74B3) MDAC S-222 COMPOSITE(T-CG) (O1)T3
 (CD74B5) MDAC S-222 COMPOSITE(T-CG) (O1)T3

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T3

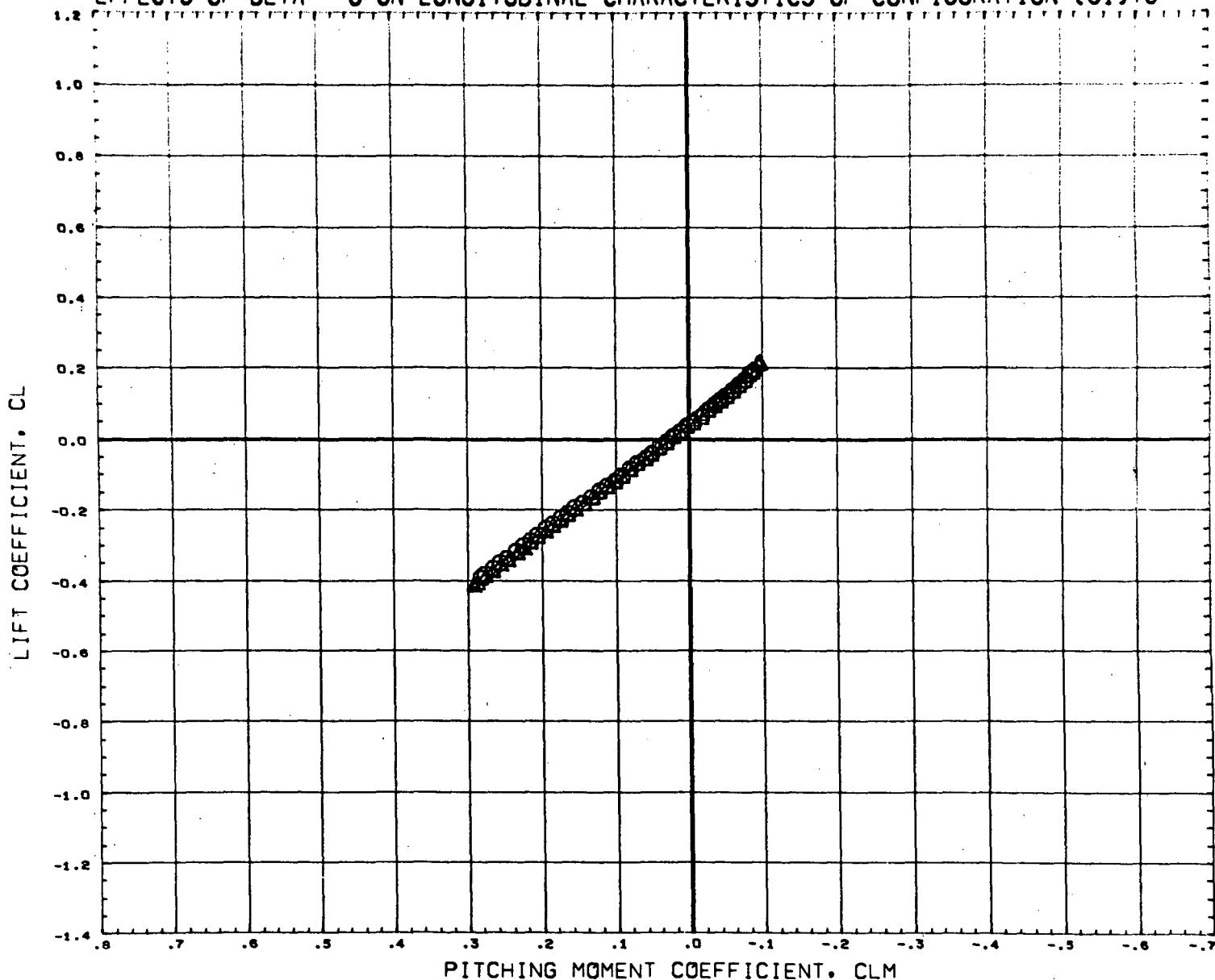


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD7483) R MDAC S-222 COMPOSITE (T-CG) (01)T3
 (CD7485) R MDAC S-222 COMPOSITE (T-CG) (01)T3

FOREBODY DRAG COEFFICIENT. CDF

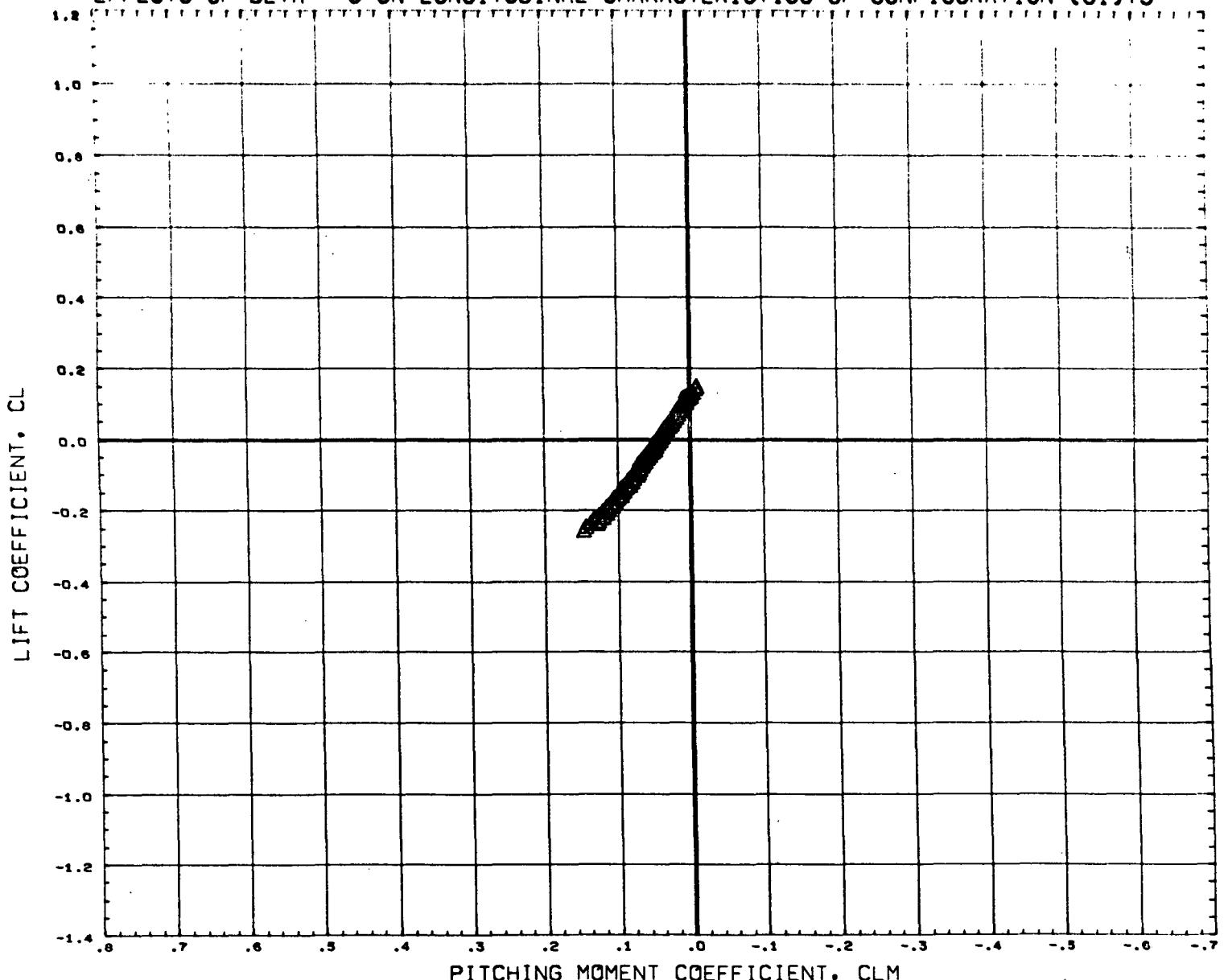
BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (O1)T3



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
(CD7483)	MDAC S-222 COMPOSITE(T-CG) (O1)T3	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD7485)	MDAC S-222 COMPOSITE(T-CG) (O1)T3	6.000	0.000	0.000	0.000	LREF 609.5004 IN.
					BREF 882.0004 IN.	
					XMRP 557.0004 IN.	
					YMRP 0.0000 IN.	
					ZMRP 200.0004 IN.	
					SCALE 0.0060	

EFFECTS OF BETA = 6 ON LONGITUDINAL CHARACTERISTICS OF CONFIGURATION (01)T3

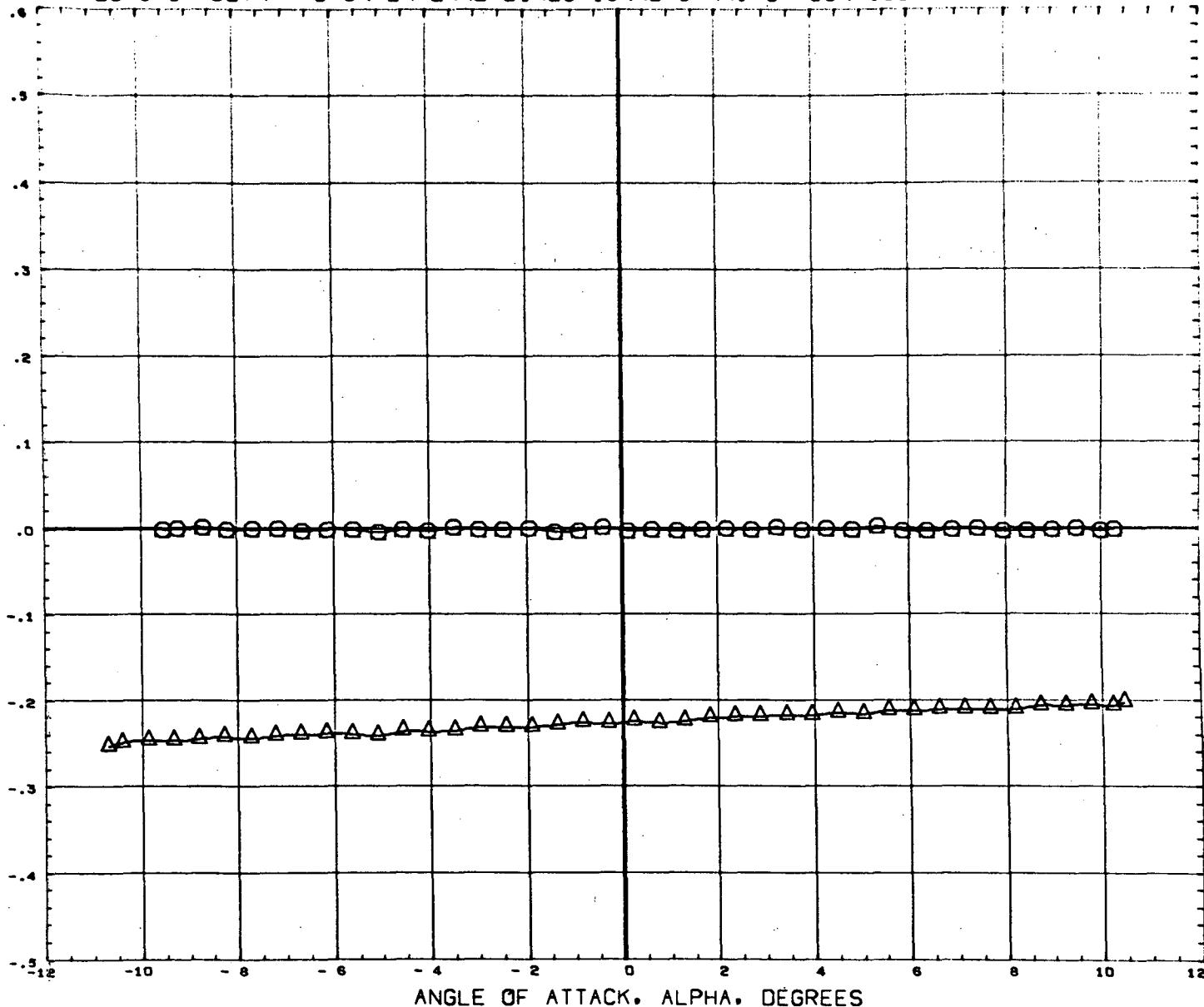


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74B3) Q MDAC S-222 COMPOSITE(T-CG) (01)T3
 (CD74B5) A MDAC S-222 COMPOSITE(T-CG) (01)T3

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (O1)T3

LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD74B3) Q MDAC S-222 COMPOSITE (T-CG) (O1)T3
 (RD74B5) Q MDAC S-222 COMPOSITE (T-CG) (O1)T3

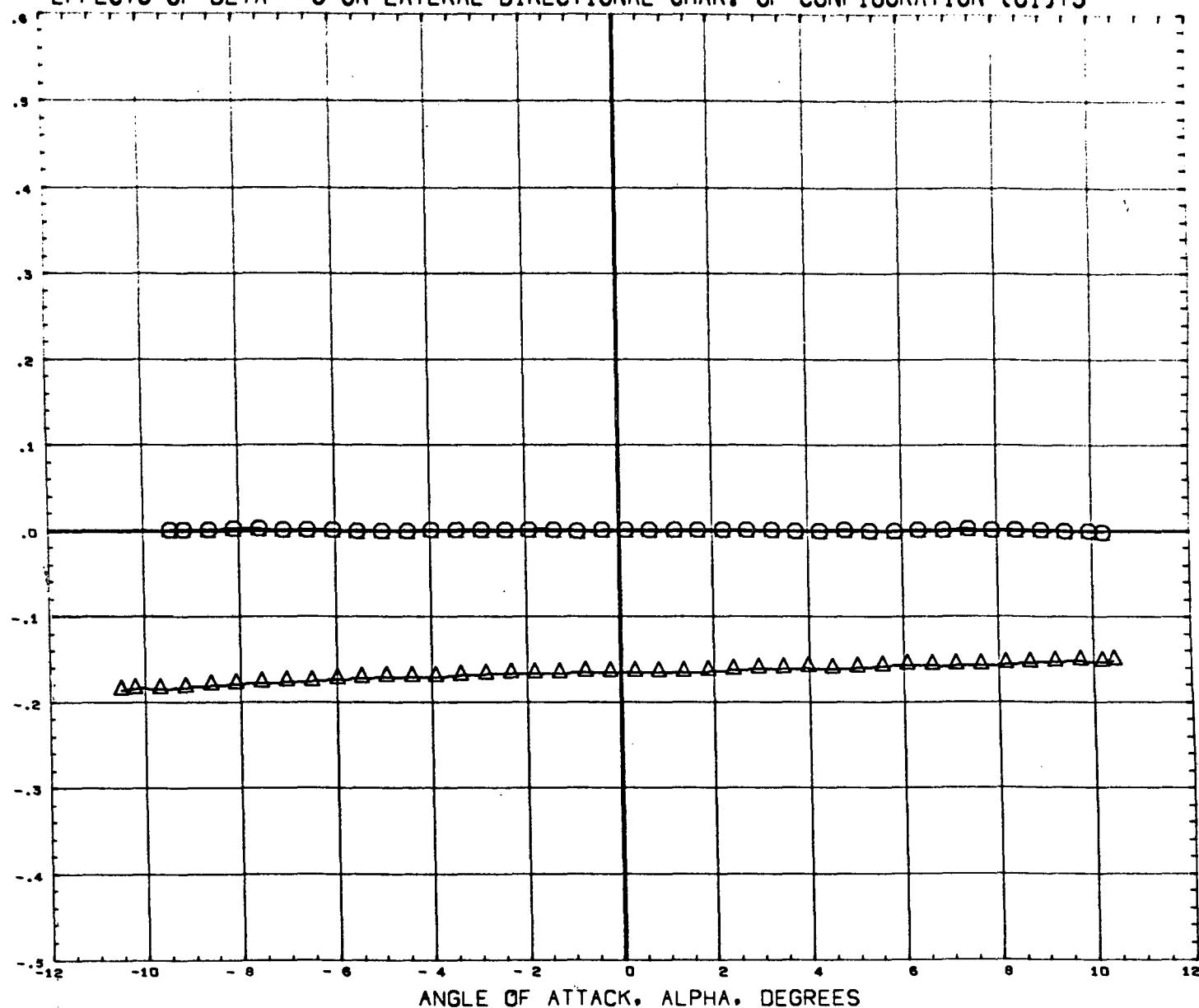
BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SO.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 2.20

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EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (01)T3

LATERAL FORCE COEFFICIENT, CY

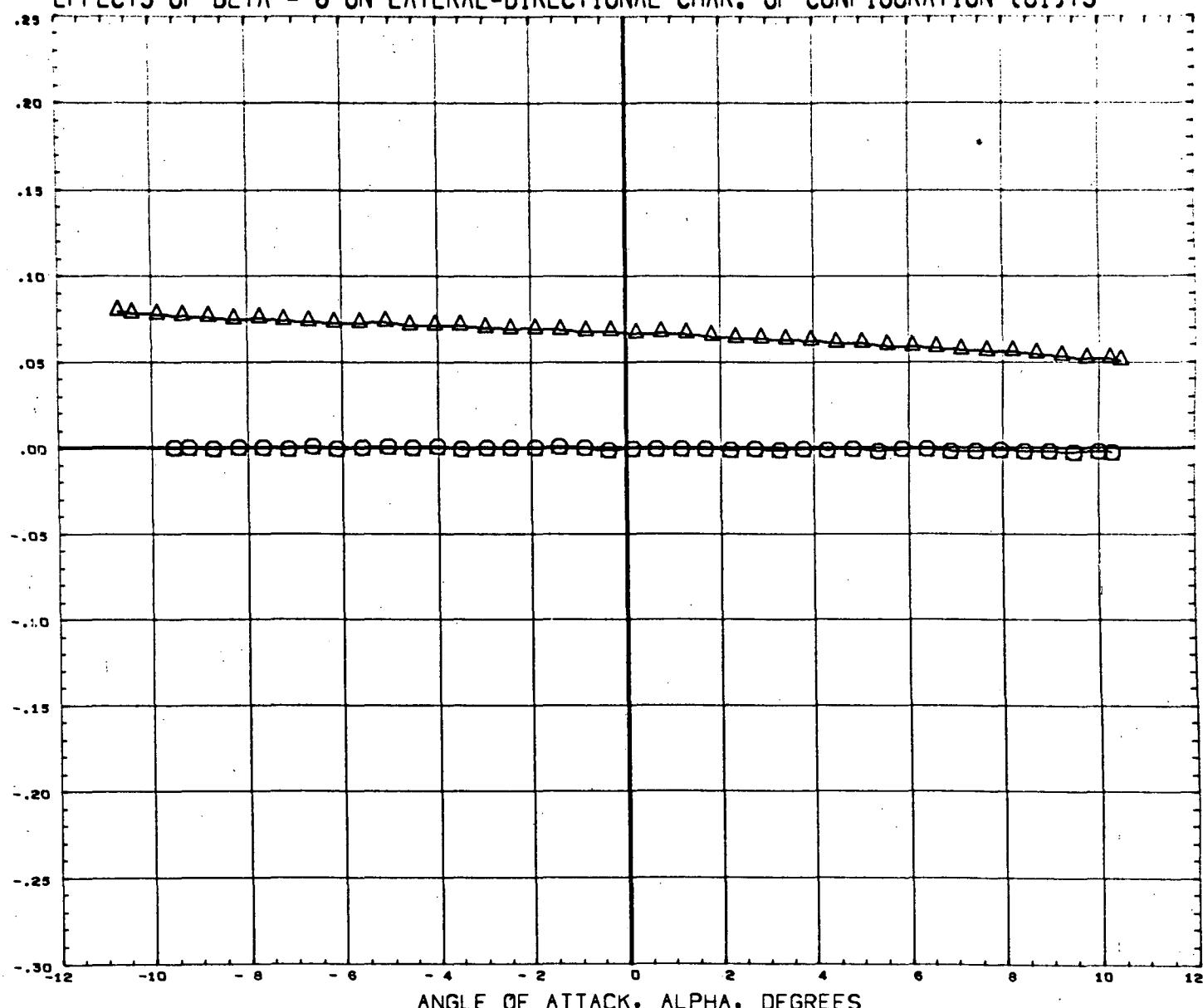


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD74B3) MDAC S-222 COMPOSITE (T-CG) (01)T3.
 (RD74B5) MDAC S-222 COMPOSITE (T-CG) (01)T3.

BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 662.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (01)T3

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD74B3) MDAC S-222 COMPOSITE (T-CG) (01) T3
 (RD74B5) MDAC S-222 COMPOSITE (T-CG) (01) T3

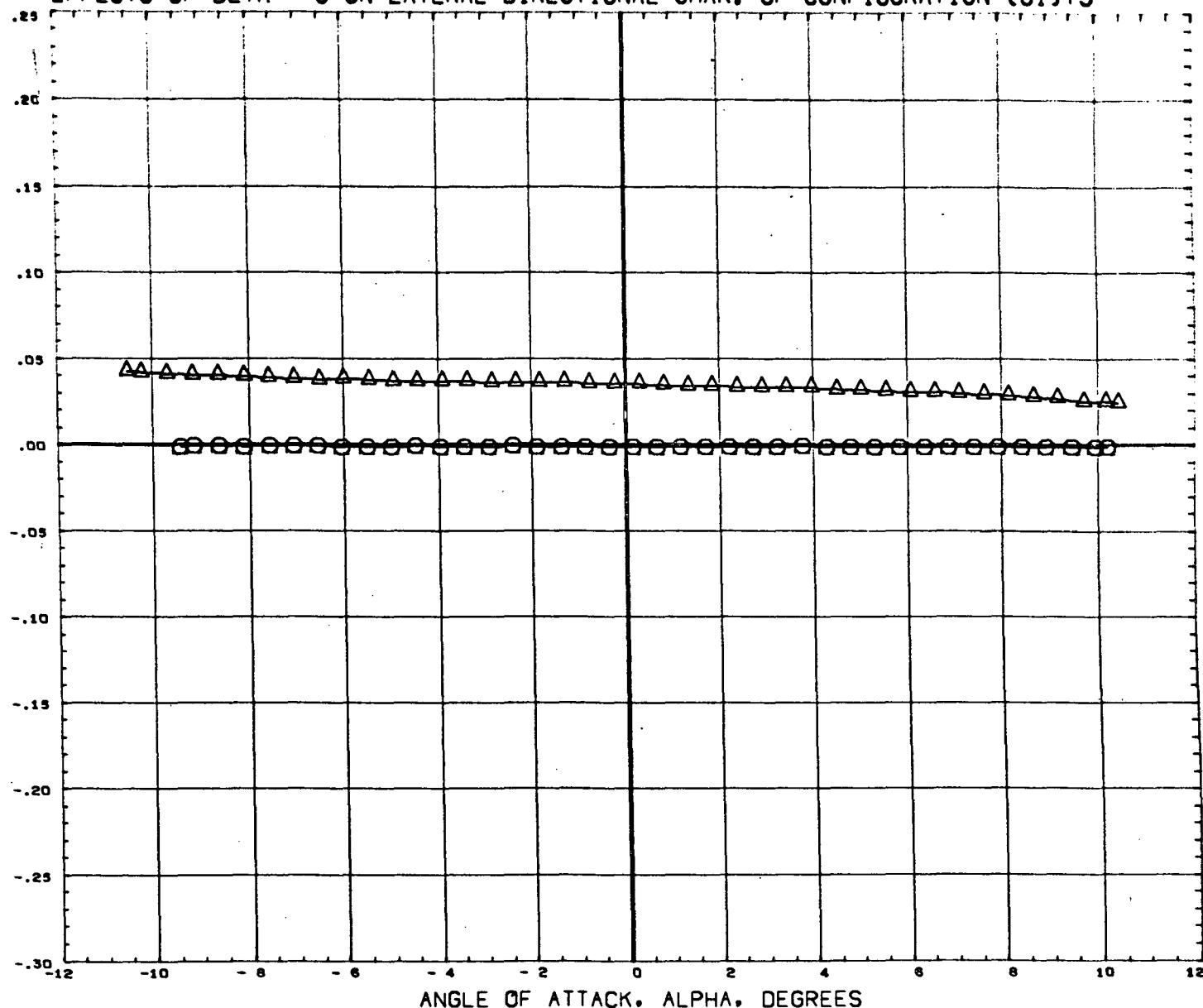
BETA	ELEVTR	AILRDN	RUDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060

MACH 2.20

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EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (01)T3

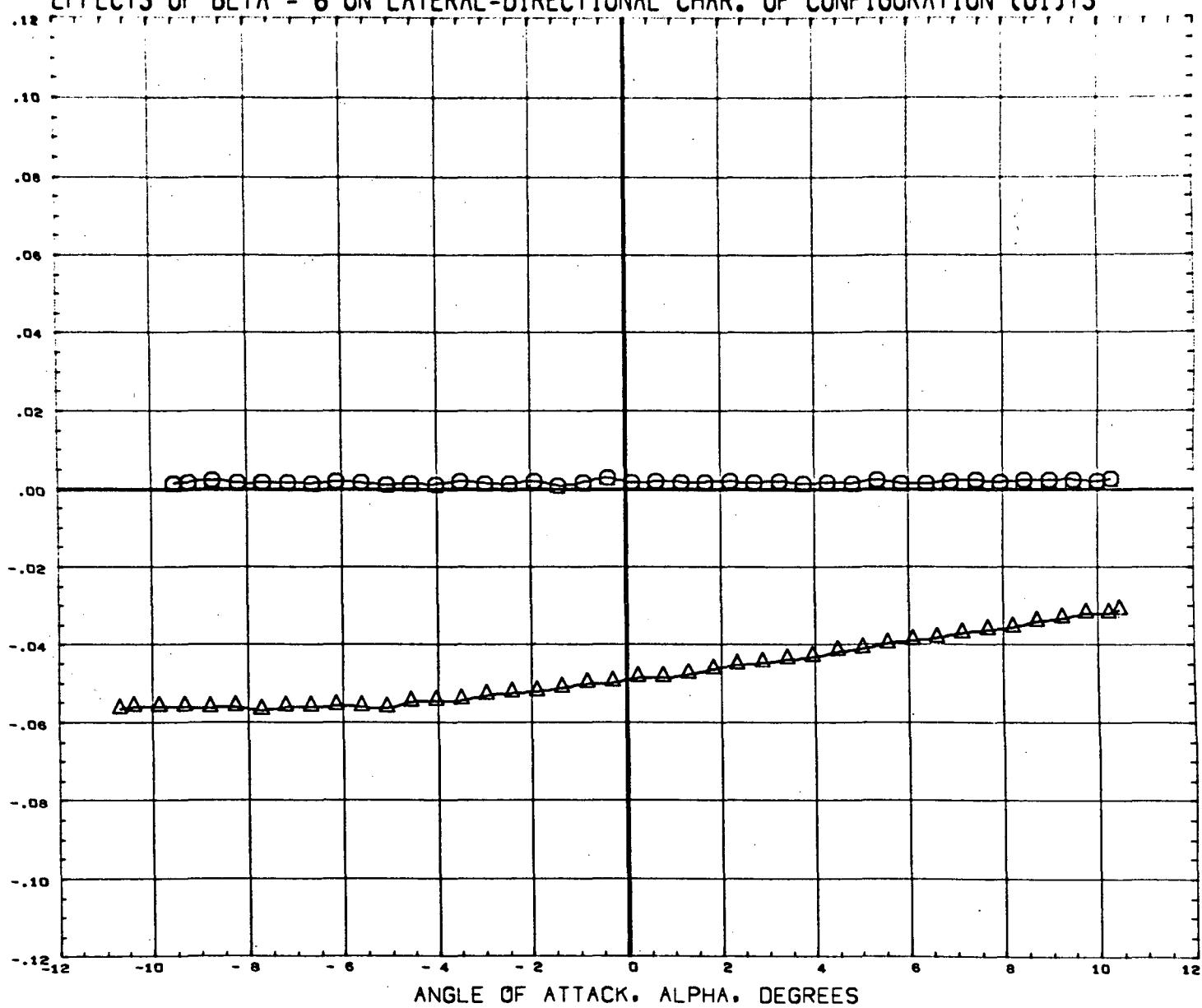
YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
(RD7483)	8	MDAC S-222 COMPOSITE (T-CG) (01)T3	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(RD7485)	8	MDAC S-222 COMPOSITE (T-CG) (01)T3	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060

EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (O1)T3

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



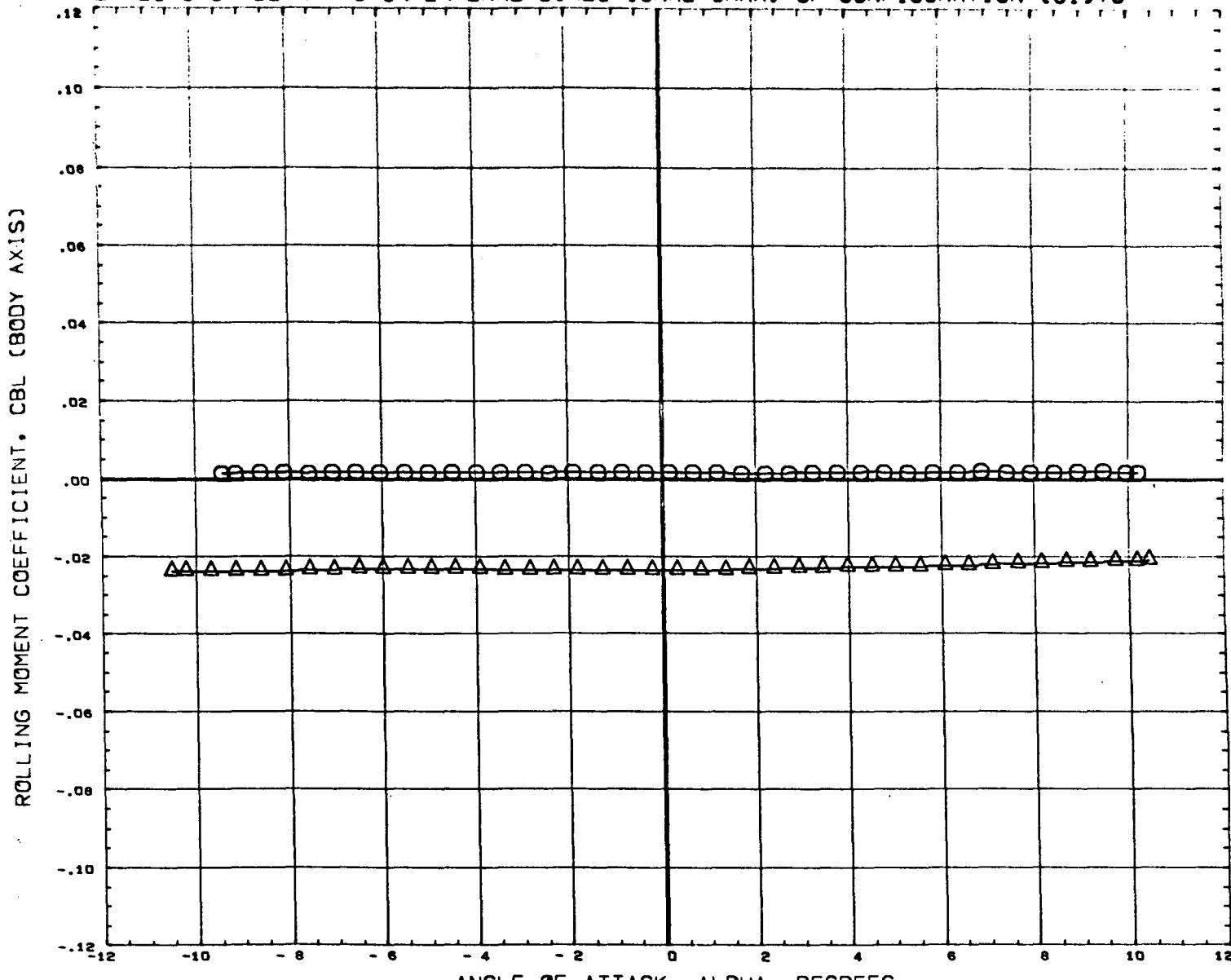
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD74B3)	Q	MDAC S-222 COMPOSITE (T-CG) (O1) T3	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD74B5)	Q	MDAC S-222 COMPOSITE (T-CG) (O1) T3	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
							BREF	882.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH

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EFFECTS OF BETA = 6 ON LATERAL-DIRECTIONAL CHAR. OF CONFIGURATION (O1)T3



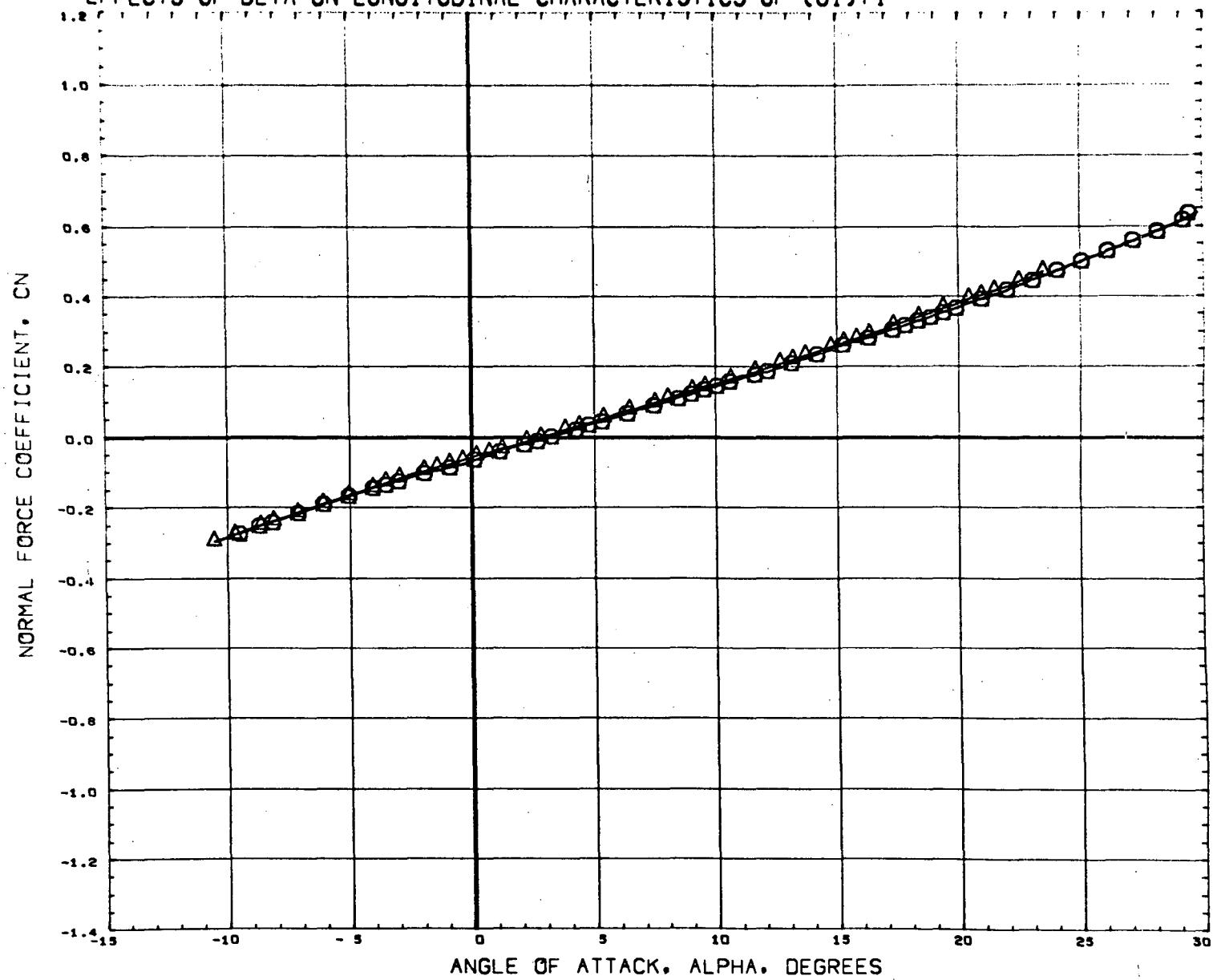
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD7483)	Q	MDAC S-222 COMPOSITE(T-CG) (O1)T3	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD7485)	Q	MDAC S-222 COMPOSITE(T-CG) (O1)T3	6.000	0.000	0.000	0.000	LREF	609.5004 IN.
							BREF	882.0004 IN.
							XMRP	557.0004 IN.
							YMRP	0.0000 IN.
							ZMRP	200.0004 IN.
							SCALE	0.0060

MACH

4.47

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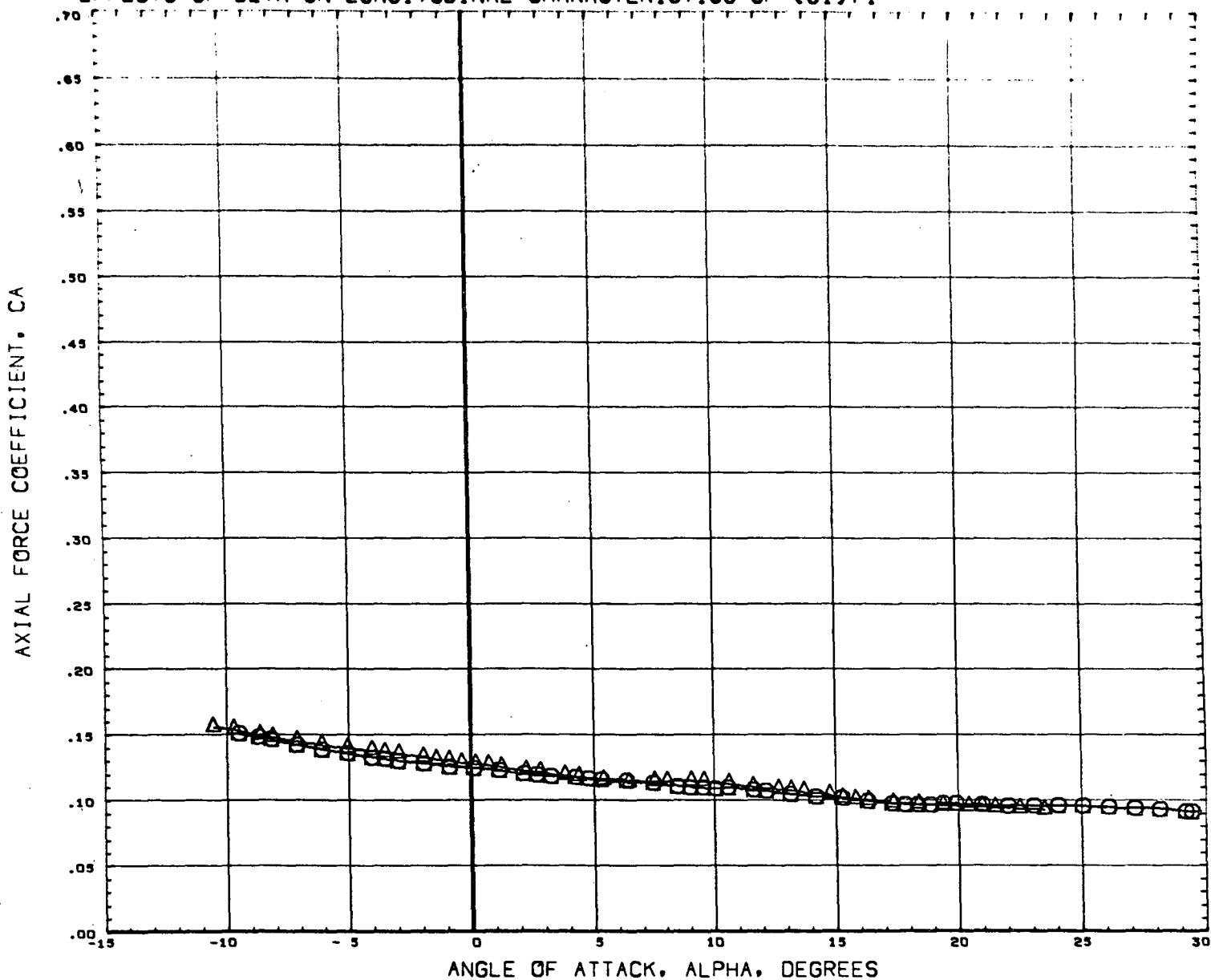
EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74E2) Q MDAC S-222 COMPOSITE (T-CG) (01)T4
 (CD74E3) Q MDAC S-222 COMPOSITE (T-CG) (01)T4

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4

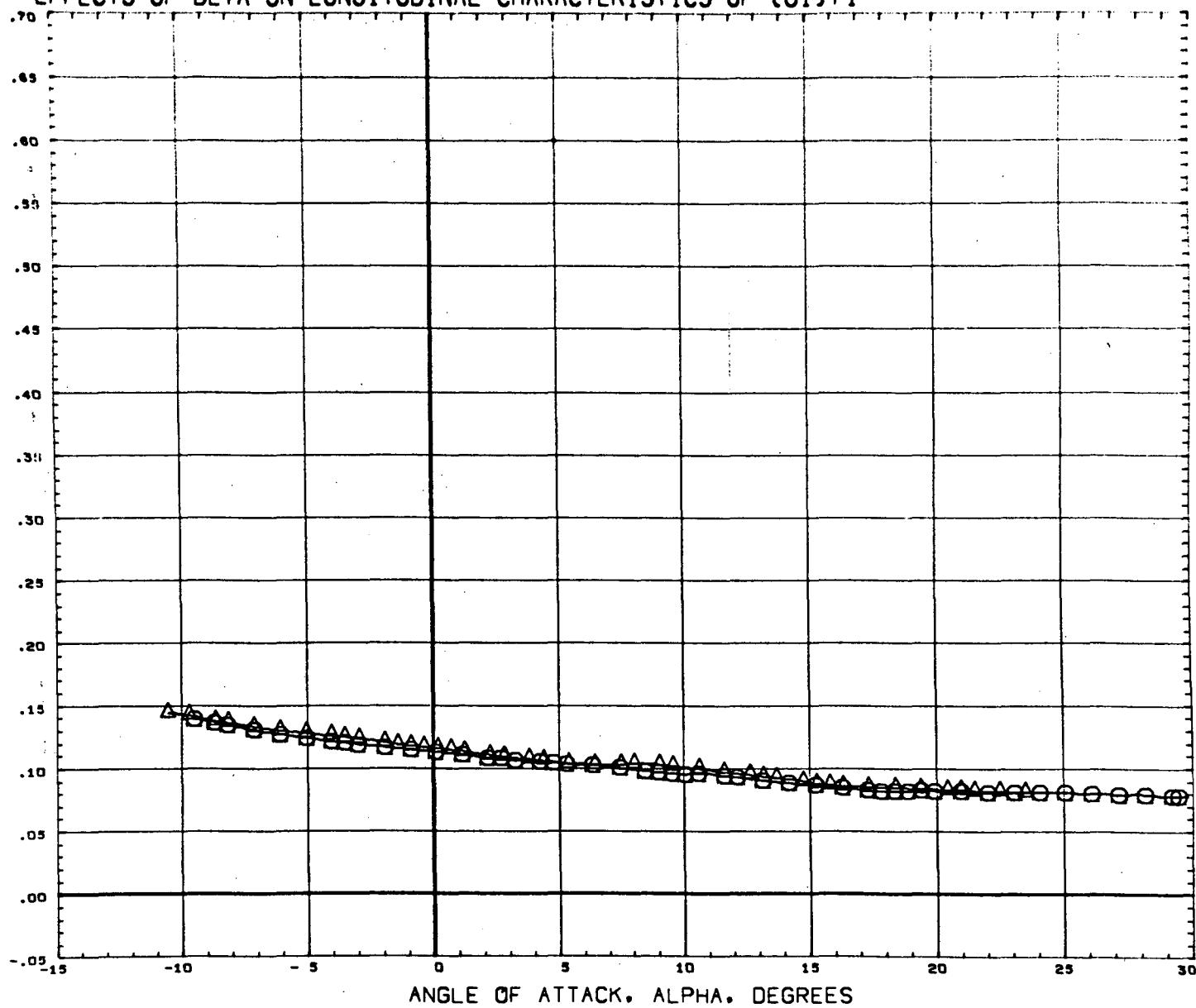


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74E2) Q MDAC S-222 COMPOSITE(T-CG) (01)T4
 (CD74E3) A MDAC S-222 COMPOSITE(T-CG) (01)T4

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4

FOREBODY AXIAL FORCE COEFFICIENT, CAF



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74E2) MDAC S-222 COMPOSITE(T-CG) (01)T4
 (CD74E3) MDAC S-222 COMPOSITE(T-CG) (01)T4

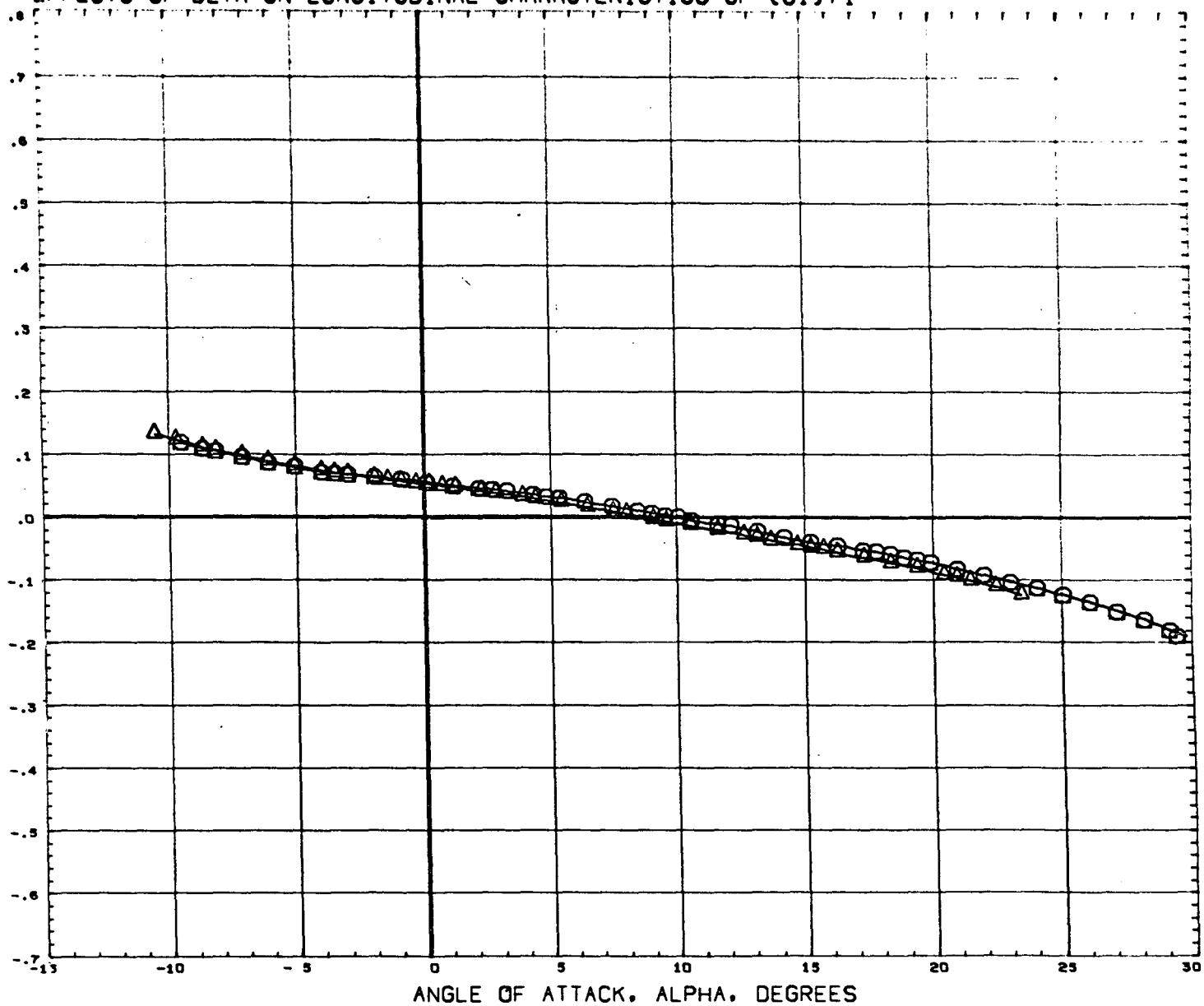
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

MACH 4.47

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EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4

PITCHING MOMENT COEFFICIENT. CLM

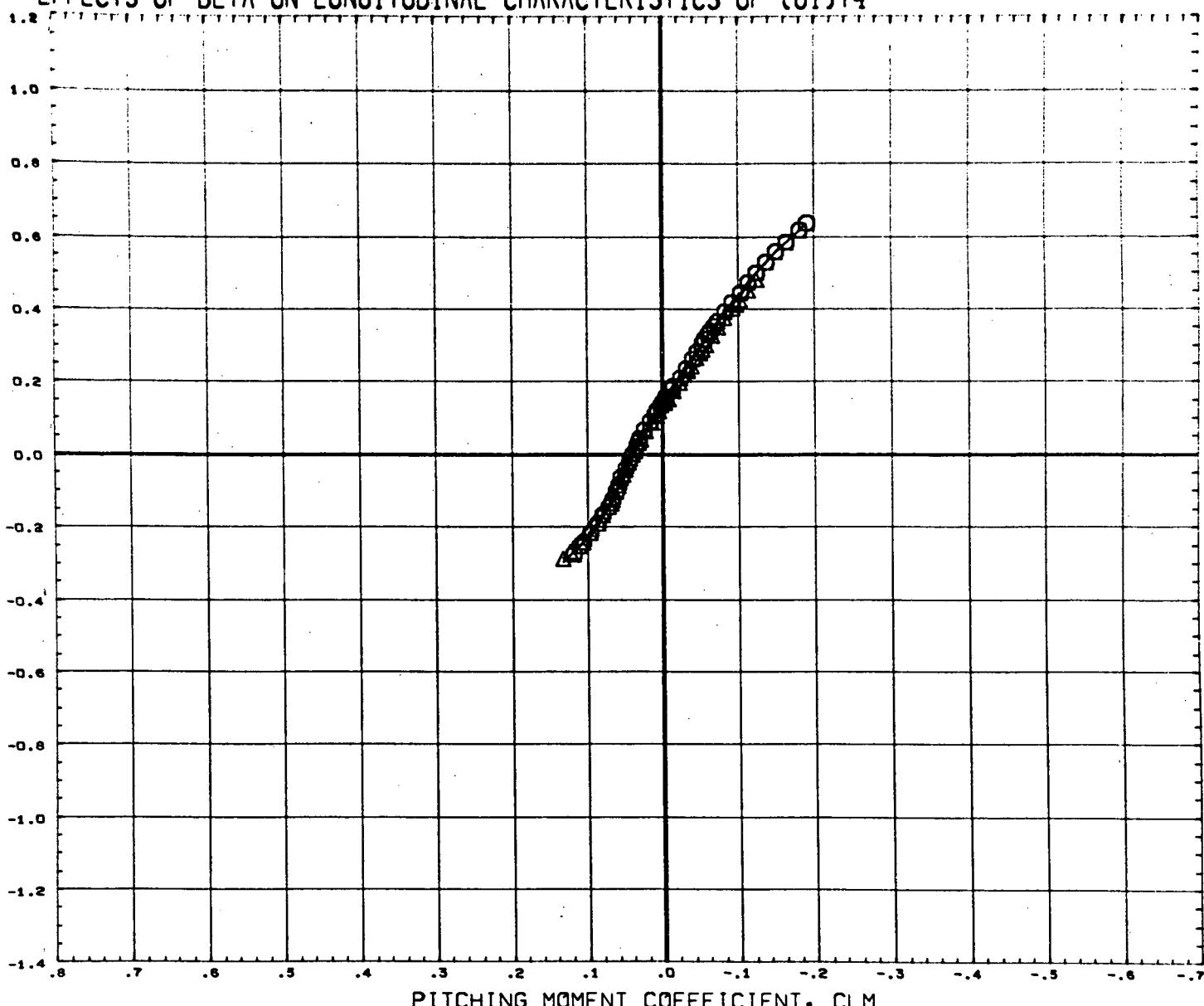


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74E2) Q MDAC S-222 COMPOSITE(T-CG) (01)T4
 (CD74E3) Q MDAC S-222 COMPOSITE(T-CG) (01)T4

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4

NORMAL FORCE COEFFICIENT, CN



PITCHING MOMENT COEFFICIENT, CLM

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74E2) Q MDAC S-222 COMPOSITE(T-CG) (01)T4
 (CD74E3) R MDAC S-222 COMPOSITE(T-CG) (01)T4

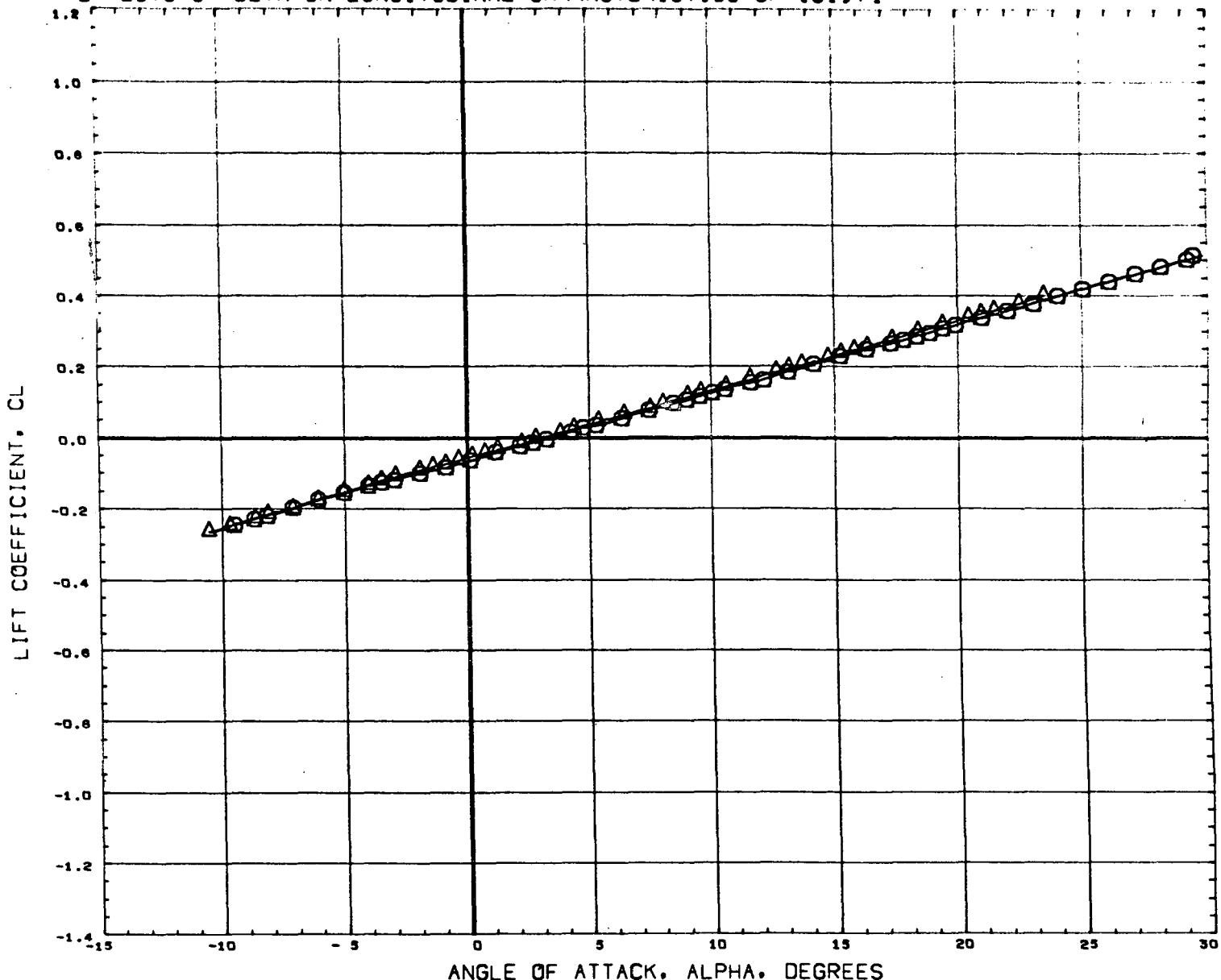
BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 682.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

MACH

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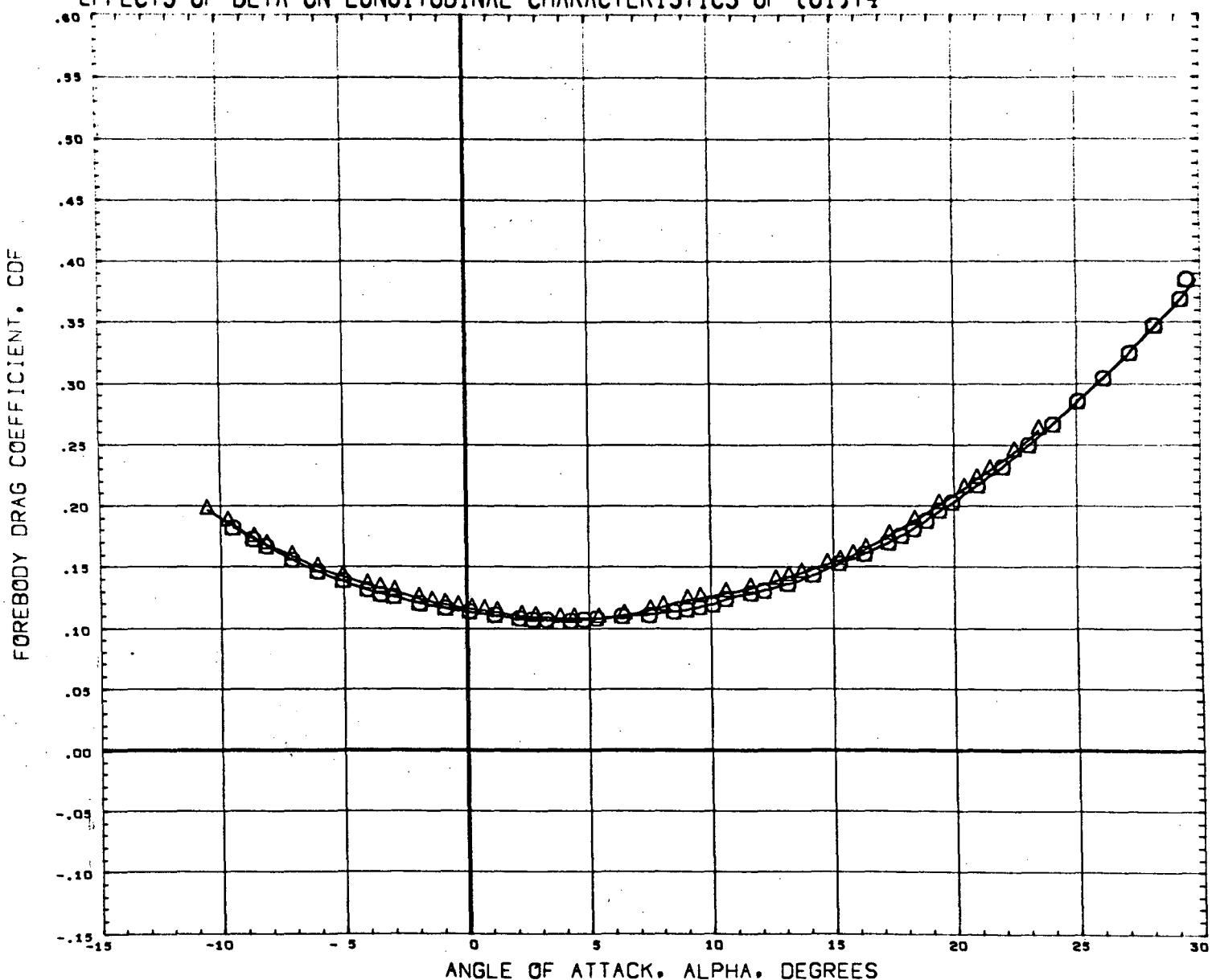
EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74E2) Q MDAC S-222 COMPOSITE(T-CG) (01)T4
 (CD74E3) A MDAC S-222 COMPOSITE(T-CG) (01)T4

BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 682.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4

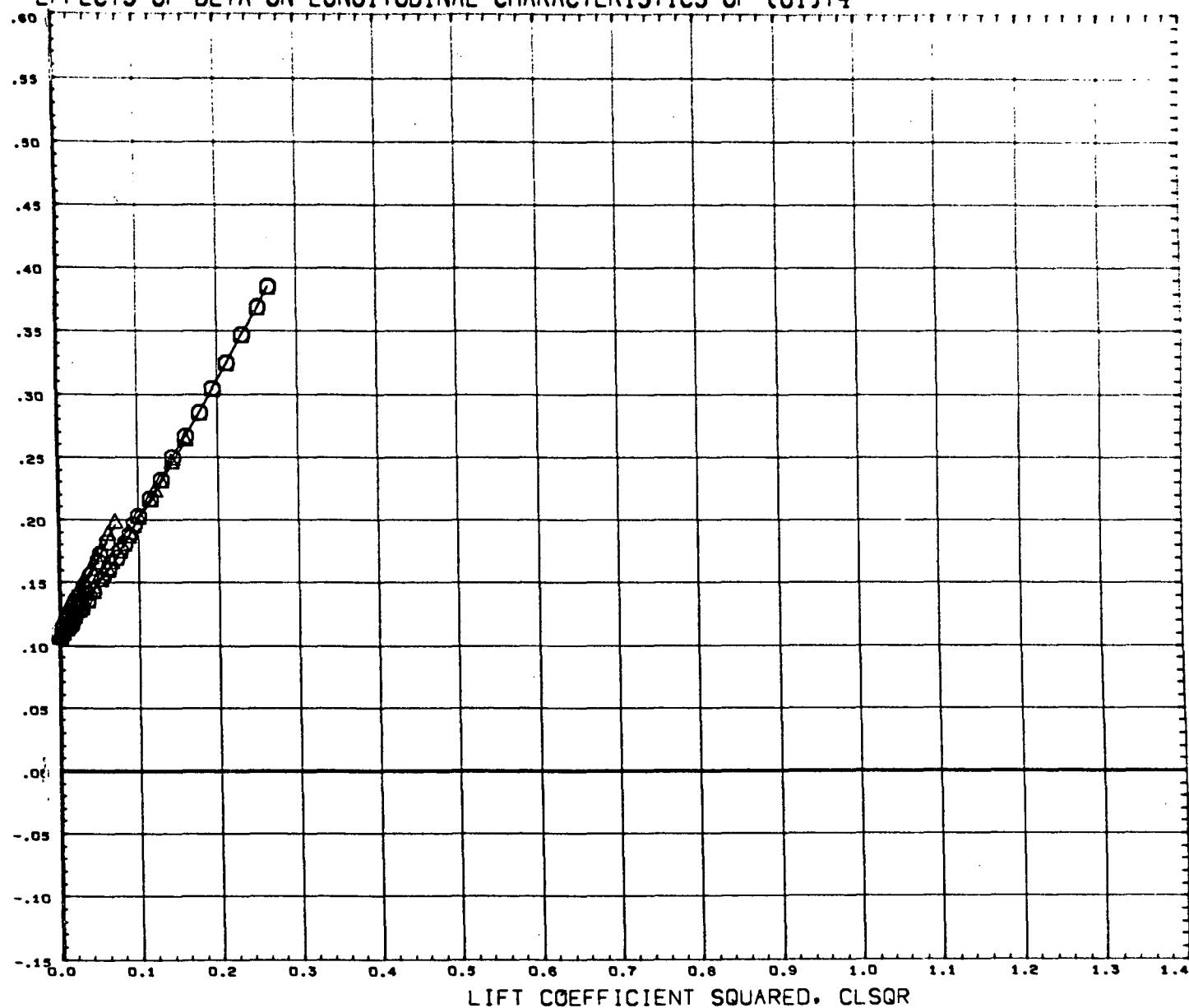


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CDT4E2) MDAC S-222 COMPOSITE (T-CG) (01)T4
 (CDT4E3) MDAC S-222 COMPOSITE (T-CG) (01)T4

BETA	ELEVTR	AILRDN	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SO.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4

FOREBODY DRAG COEFFICIENT. CDF



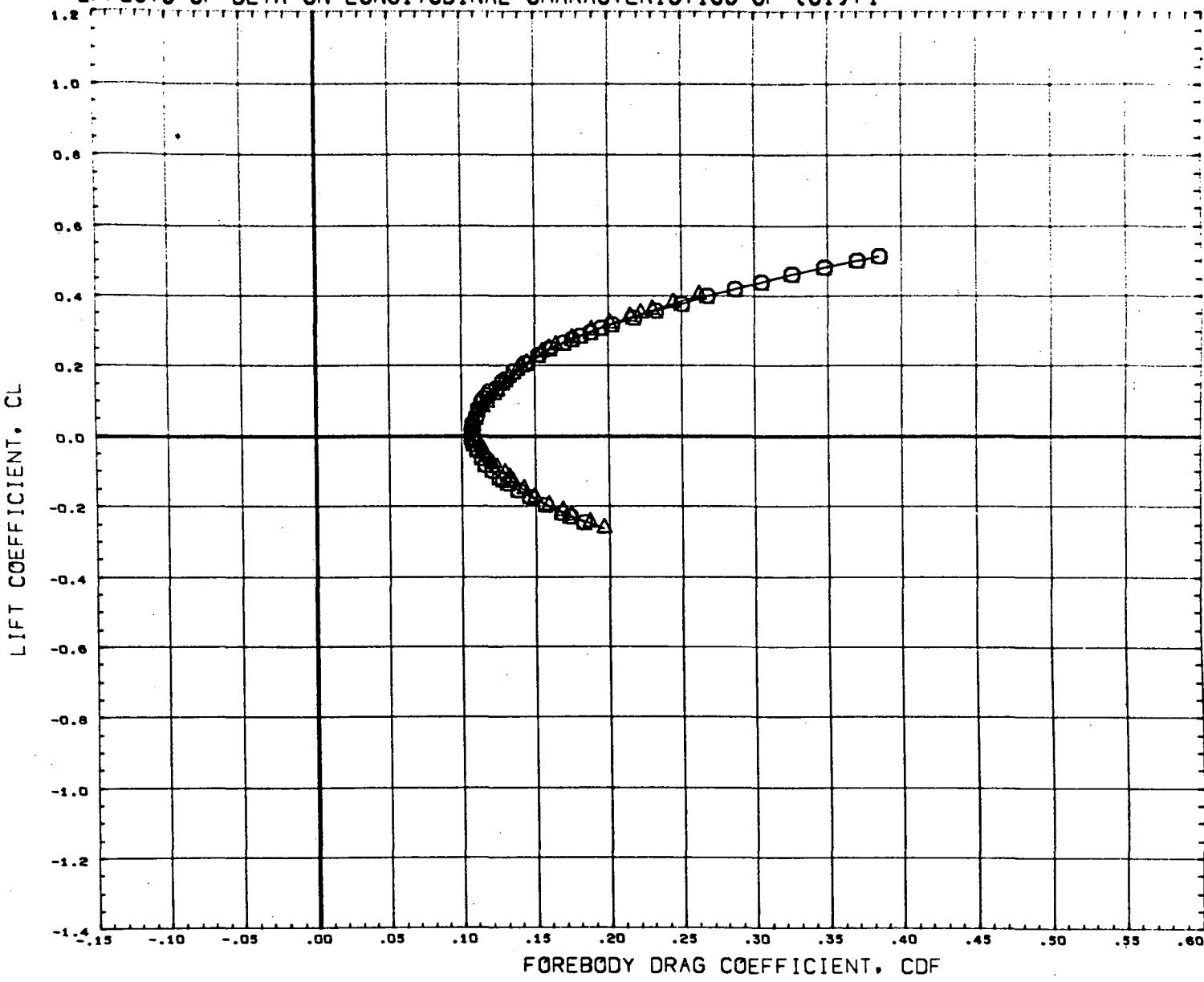
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRDN	RUDDER	REFERENCE	INFORMATION
(CD74E2)	Q	MDAC S-222 COMPOSITE (T-CG) (01)T4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(CD74E3)	A	MDAC S-222 COMPOSITE (T-CG) (01)T4	6.000	0.000	0.000	0.000	LREF	609.5004 IN.

MACH

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EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (CD74E2) Q MDAC S-222 COMPOSITE(T-CG) (01)T4
 (CD74E3) A MDAC S-222 COMPOSITE(T-CG) (01)T4

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

MACH 4.47

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EFFECTS OF BETA ON LONGITUDINAL CHARACTERISTICS OF (01)T4



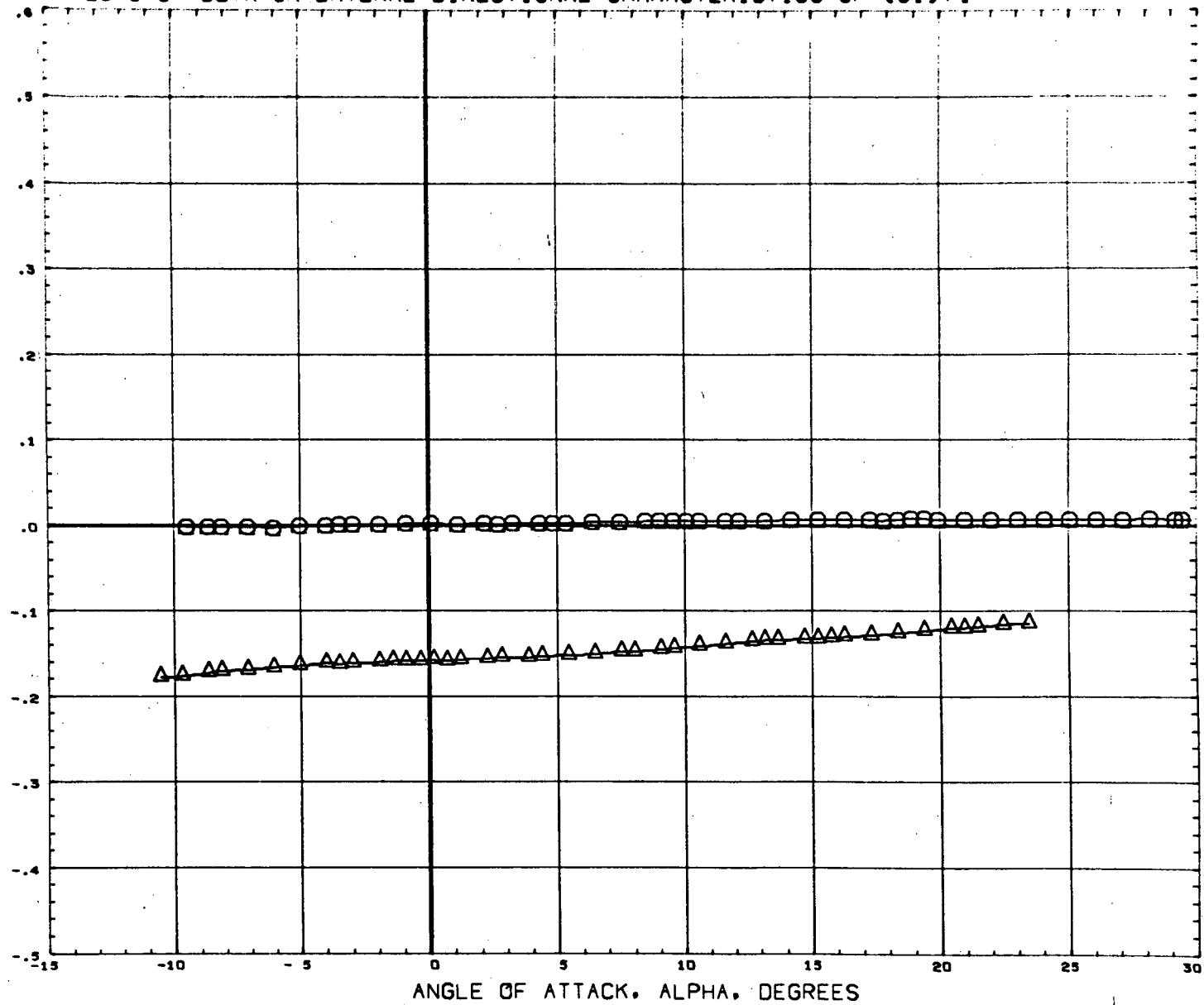
DATA SET SYMBOL		CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE INFORMATION
(CD74E2)	Q	MDAC S-222 COMPOSITE (T-CG) (01) T4	0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
(CD74E3)	Q	MDAC S-222 COMPOSITE (T-CG) (01) T4	6.000	0.000	0.000	0.000	LREF 609.5004 IN. BREF 882.0004 IN. XMRP 557.0004 IN. YMRP 0.0000 IN. ZMRP 200.0004 IN. SCALE 0.0060 SCALE

MACH 4.47

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EFFECTS OF BETA ON LATERAL-DIRECTIONAL CHARACTERISTICS OF (01)T4

LATERAL FORCE COEFFICIENT, CY



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	ELEVTR	AILRON	RUDDER	REFERENCE	INFORMATION
(RD74E2)	MDAC S-222 COMPOSITE(T-CG) (01)T4	0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
(RD74E3)	MDAC S-222 COMPOSITE(T-CG) (01)T4	6.000	0.000	0.000	0.000	LREF	609.5004 IN.

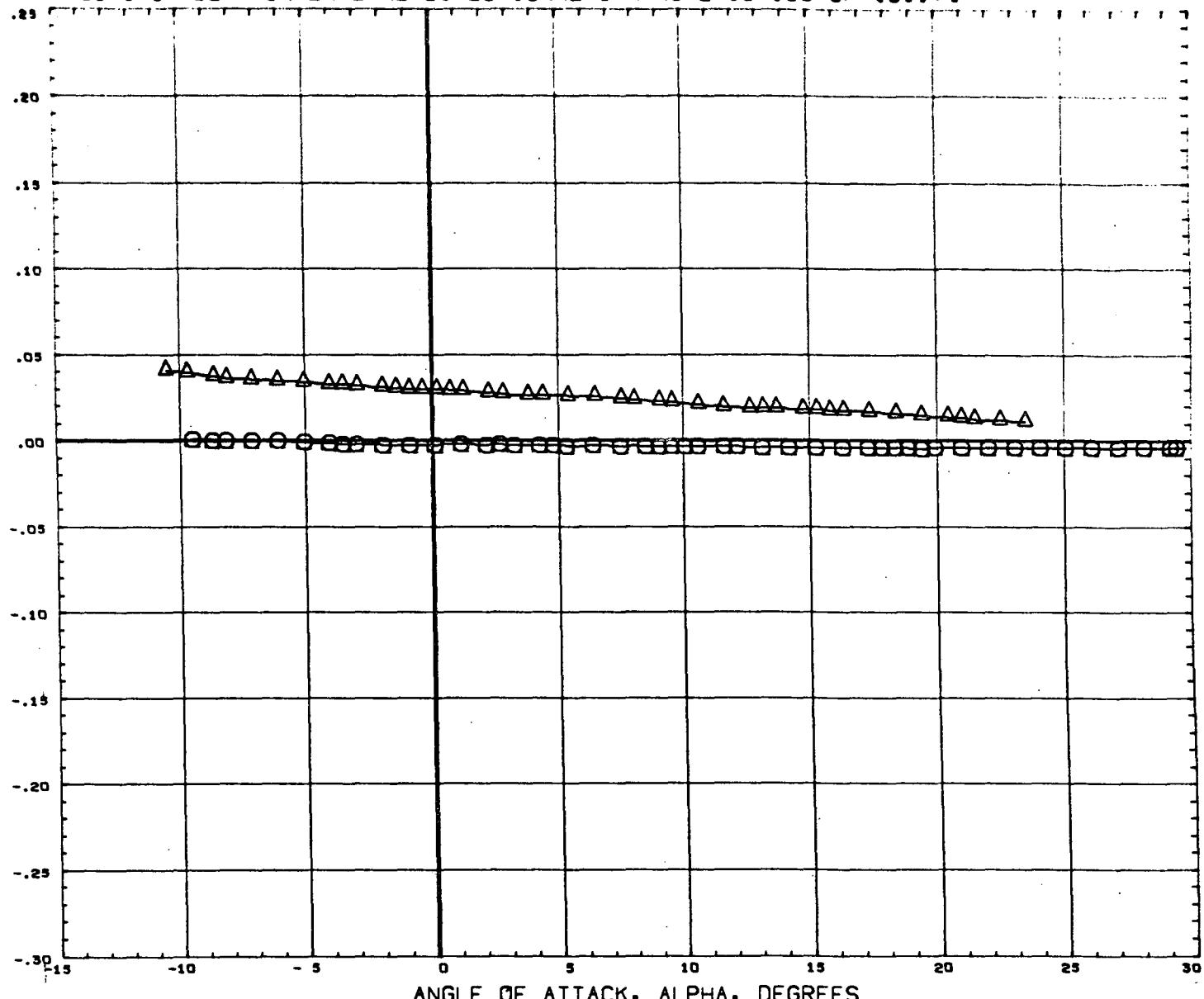
MACH

4.47

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EFFECTS OF BETA ON LATERAL-DIRECTIONAL CHARACTERISTICS OF (01)T4

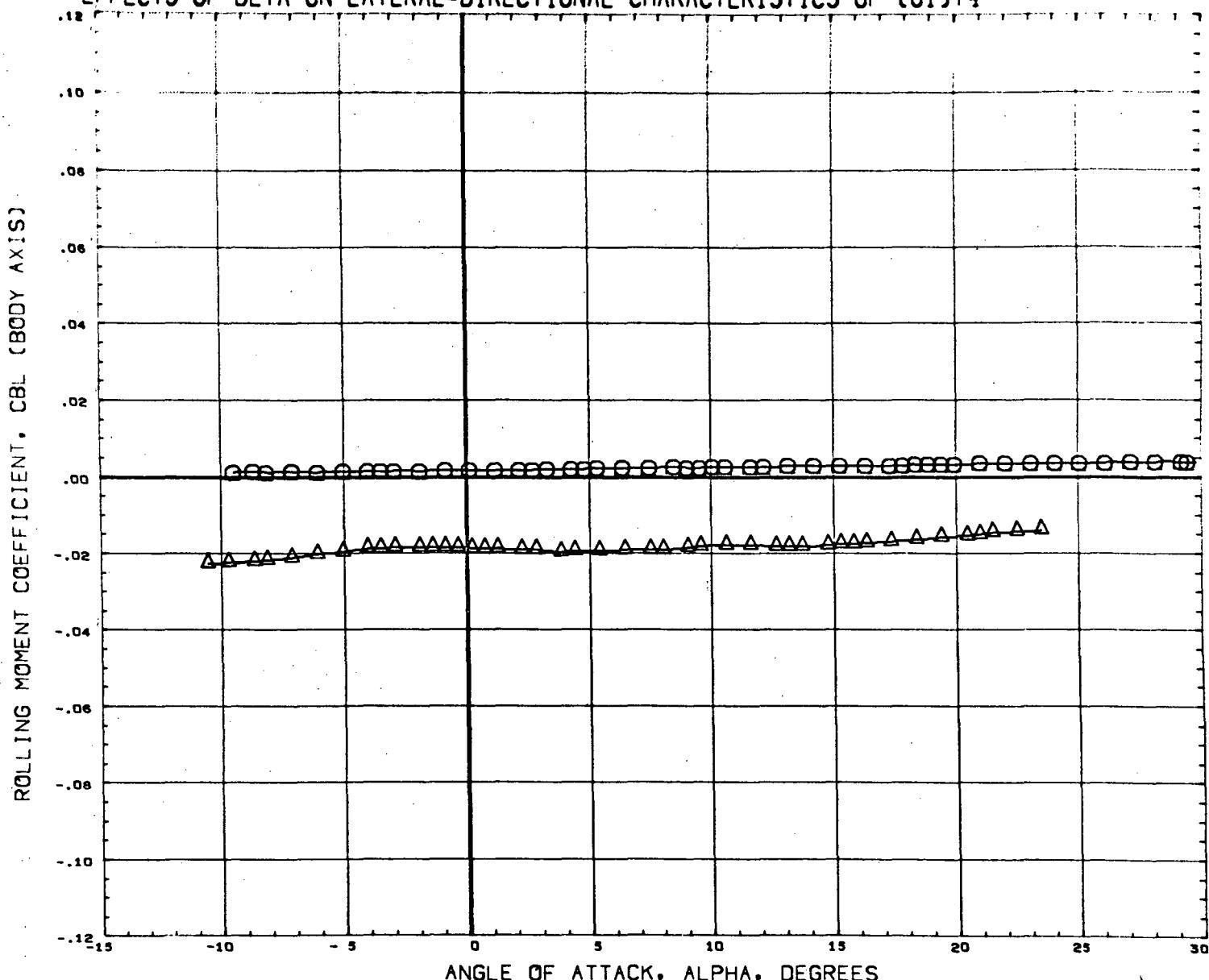
YAWING MOMENT COEFFICIENT. CYN (BODY AXIS)



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD74E2) MDAC S-222 COMPOSITE (T-CG) (01) T4
 (RD74E3) MDAC S-222 COMPOSITE (T-CG) (01) T4

BETA	ELEVTR	AILRDN	RUDER	REFERENCE	INFORMATION
0.000	0.000	0.000	0.000	SREF	3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF	609.5004 IN.
				BREF	882.0004 IN.
				XMRP	557.0004 IN.
				YMRP	0.0000 IN.
				ZMRP	200.0004 IN.
				SCALE	0.0060 SCALE

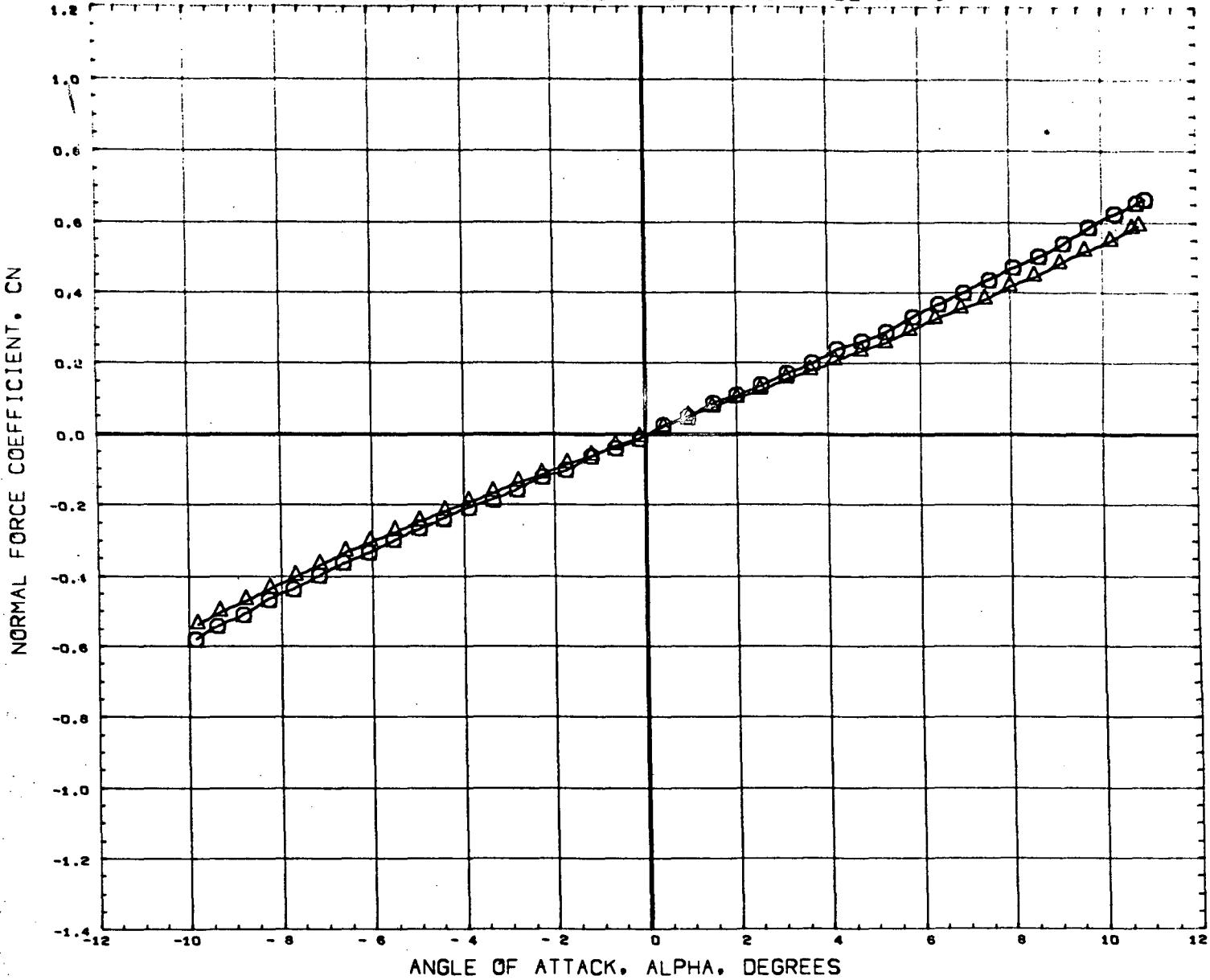
EFFECTS OF BETA ON LATERAL-DIRECTIONAL CHARACTERISTICS OF (01)T4



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RD74E2) MDAC S-222 COMPOSITE(T-CG) (01)T4
 (RD74E3) MDAC S-222 COMPOSITE(T-CG) (01)T4

BETA	ELEVTR	AIRLON	RUDDER	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 3155.3040 SQ.FT.
6.000	0.000	0.000	0.000	LREF 609.5004 IN.
				BREF 882.0004 IN.
				XMRP 557.0004 IN.
				YMRP 0.0000 IN.
				ZMRP 200.0004 IN.
				SCALE 0.0060 SCALE

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES
	1.507	BETA 0.000
	2.203	

REFERENCE INFORMATION	
SREF	3155.3040
LREF	609.5004
BREF	882.0004
XMRP	557.0004
YMRP	0.0000
ZMRP	200.0004
SCALE	0.0060

DATA HIST. CODE TV

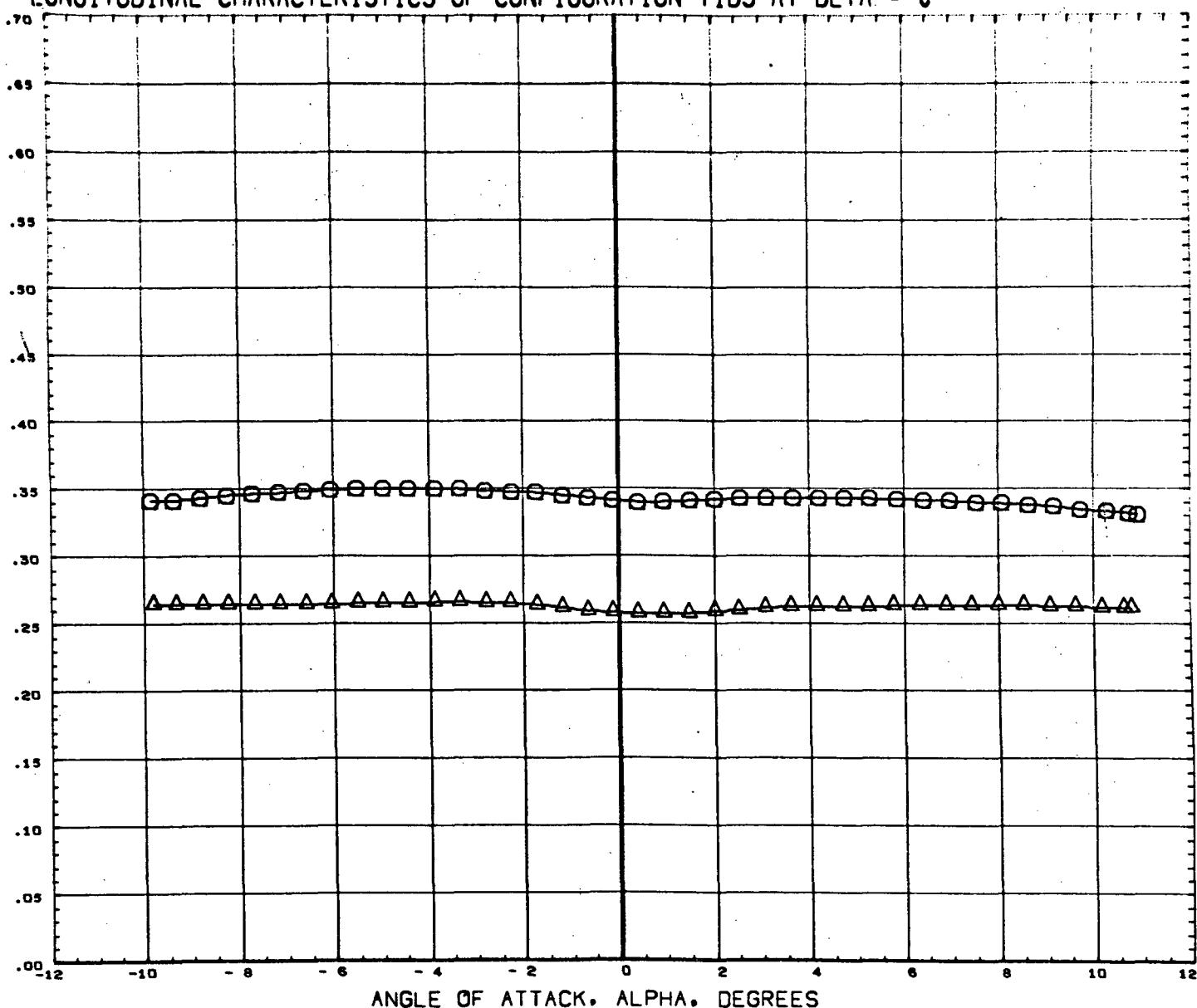
MDAC S-222 COMPOSITE(T-CG) T1B5

(CD7568) 12 SEP 72

PAGE 492

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0

AXIAL FORCE COEFFICIENT, CA



SYMBOL



MACH

1.507

BETA

PARAMETRIC VALUES

0.000

DATA HIST. CODE TV

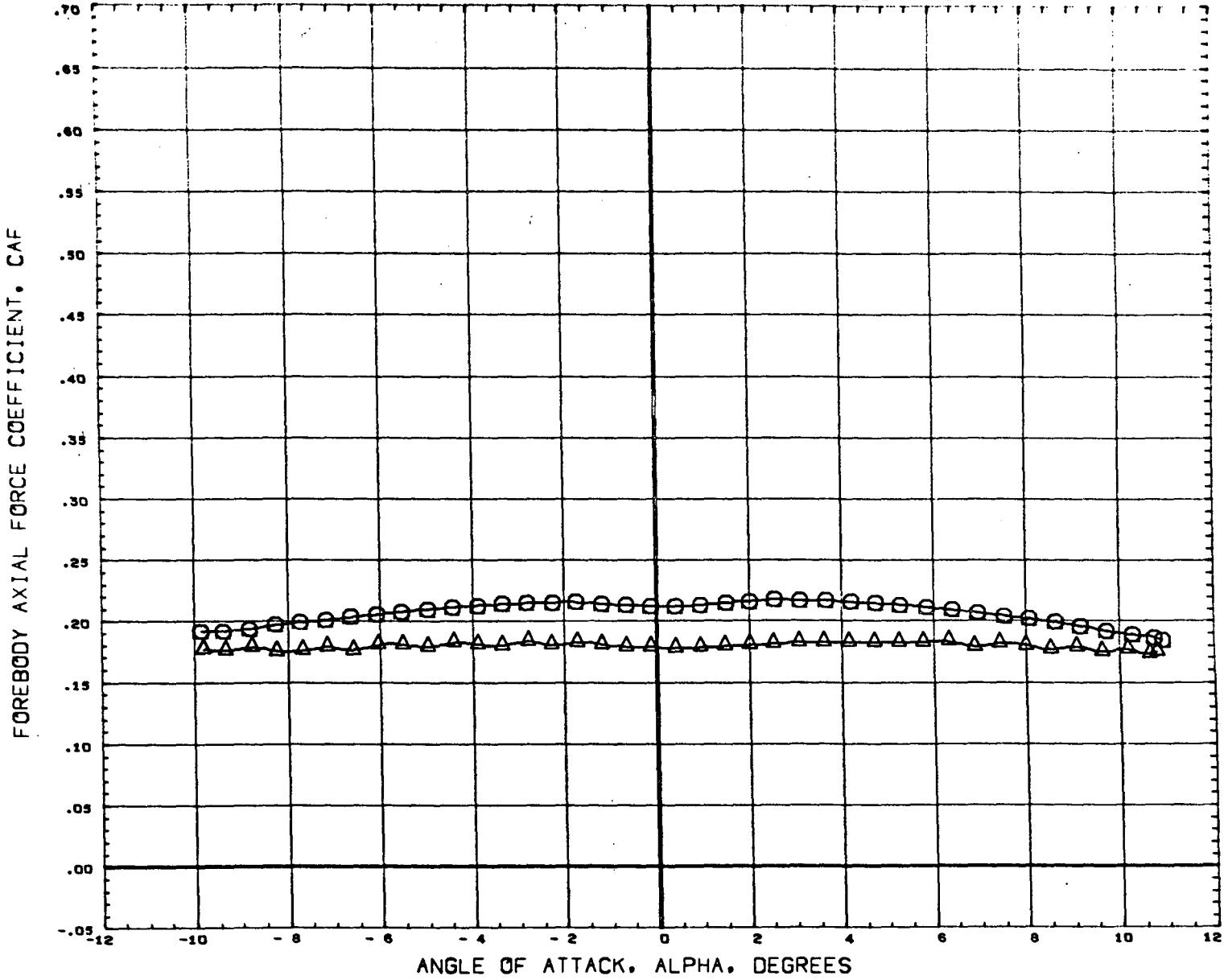
MDAC S-222 COMPOSITE(T-CG) T1B5

REFERENCE INFORMATION

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LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	IN.

(CD7568) 12 SEP 72 PAGE 493

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1BS AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES
	1.507	BETA 0.000
	2.203	

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.3004	IN.
BREF	882.0004	IN.
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DATA HIST. CODE TV

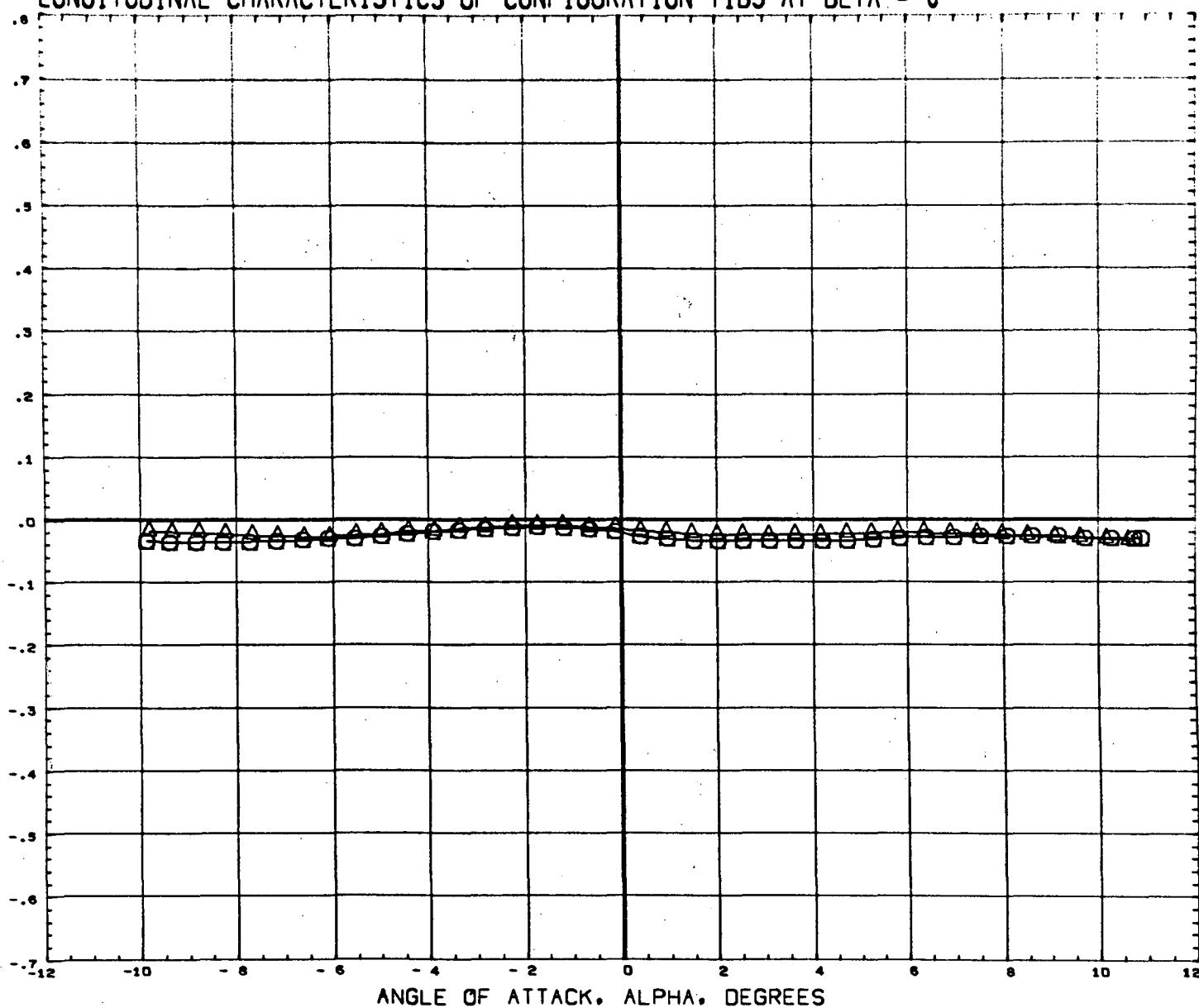
MDAC S-222 COMPOSITE(T-CG) T1B5

(CD7568) 12 SEP 72

PAGE 494

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0

PITCHING MOMENT COEFFICIENT. CLM



SYMBOL MACH PARAMETRIC VALUES
 1.507 BETA 0.000
 2.203

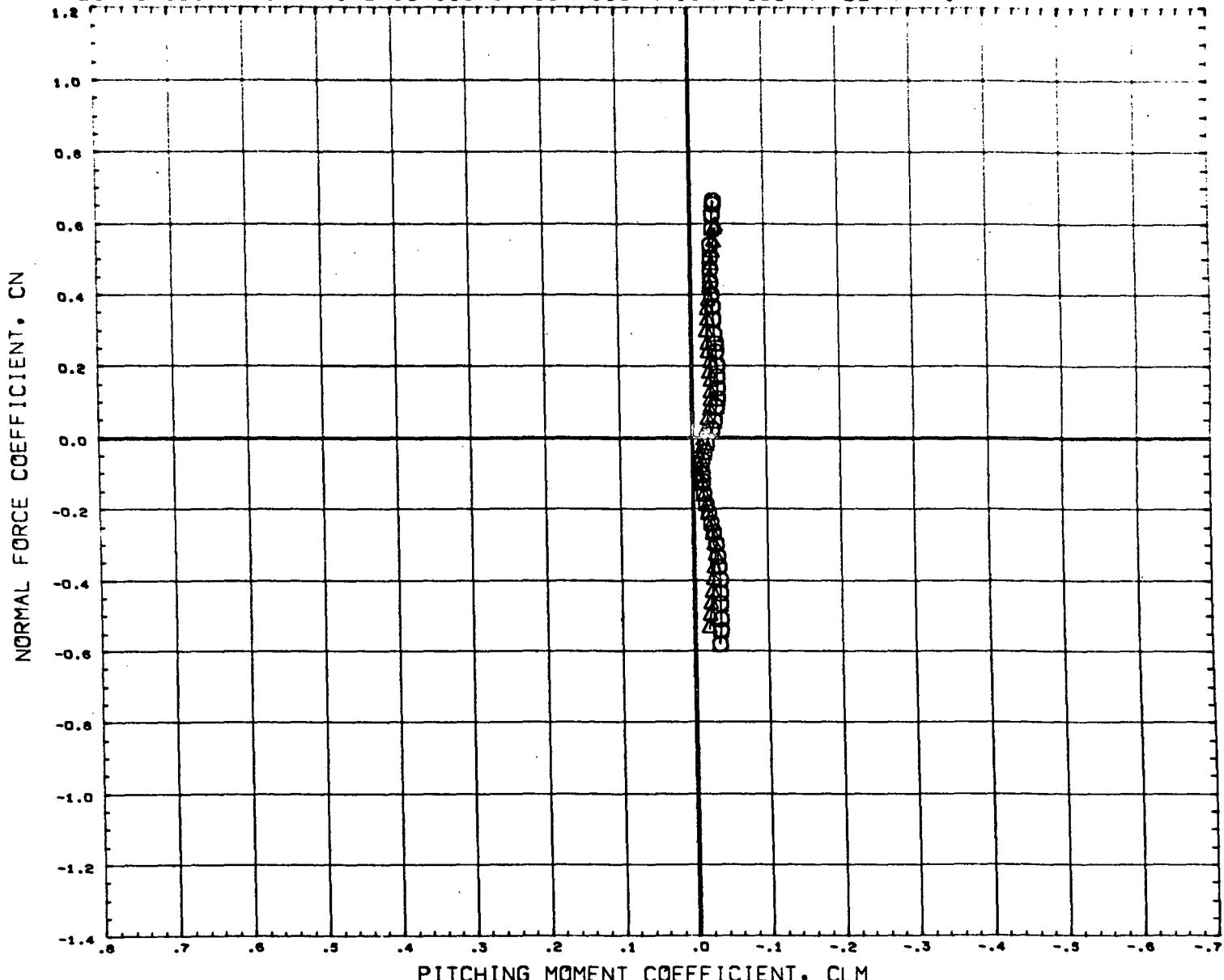
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 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T1B5

(CD7568) 12 SEP 72 PAGE 495

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0



SYMBOL	MACH	BETA	PARAMETRIC VALUES
	1.507		0.000
	2.203		

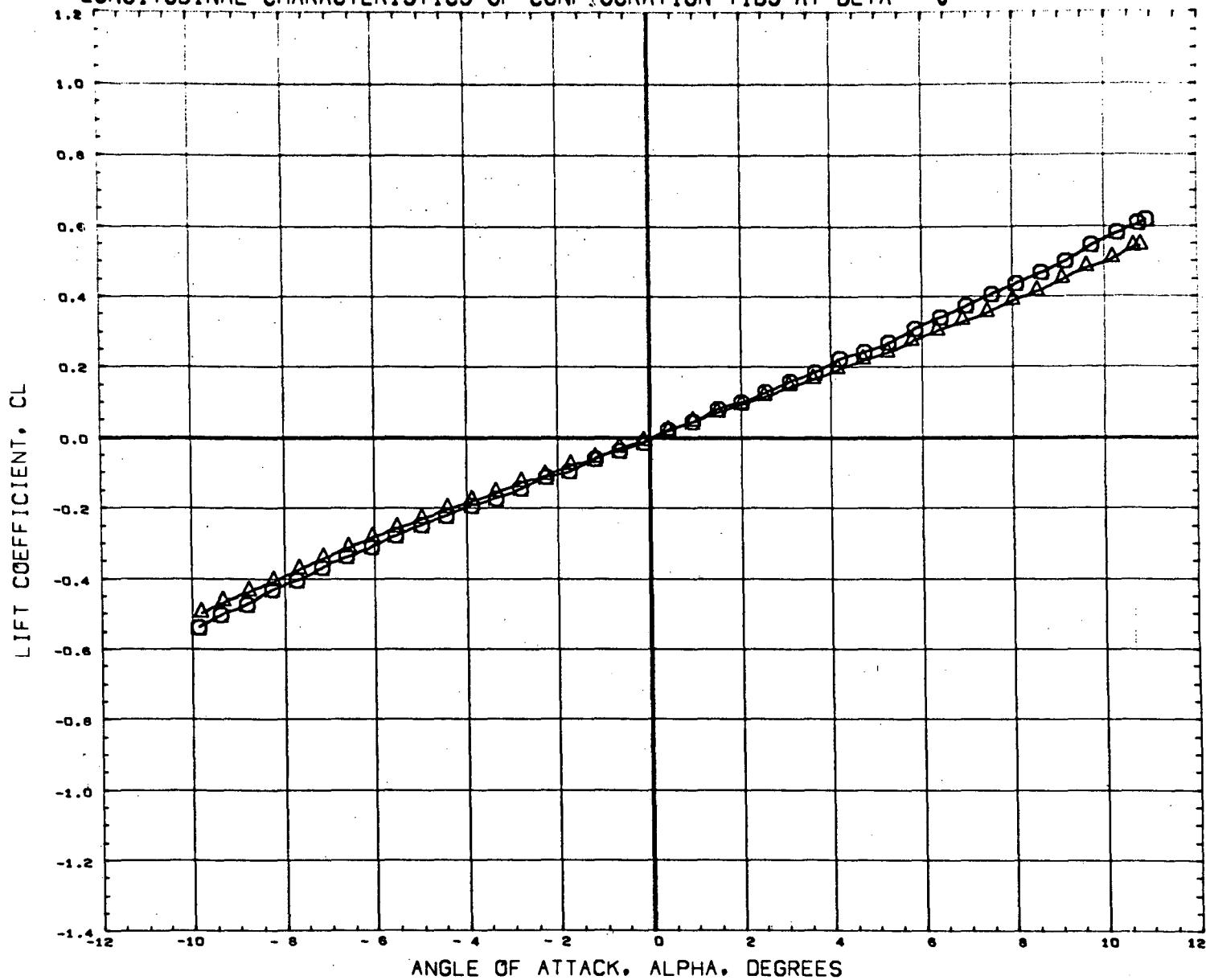
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REF	609.5004	IN.
REF	882.0004	IN.
MRP	557.0004	IN.
MRP	0.0000	IN.
MRP	200.0004	IN.
CALE	0.0060	

DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T1BS

(CD7568) 12 SEP 72 PAGE 496

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0



SYMBOL	MACH	BETA
	1.507	
	2.203	

PARAMETRIC VALUES
0.000

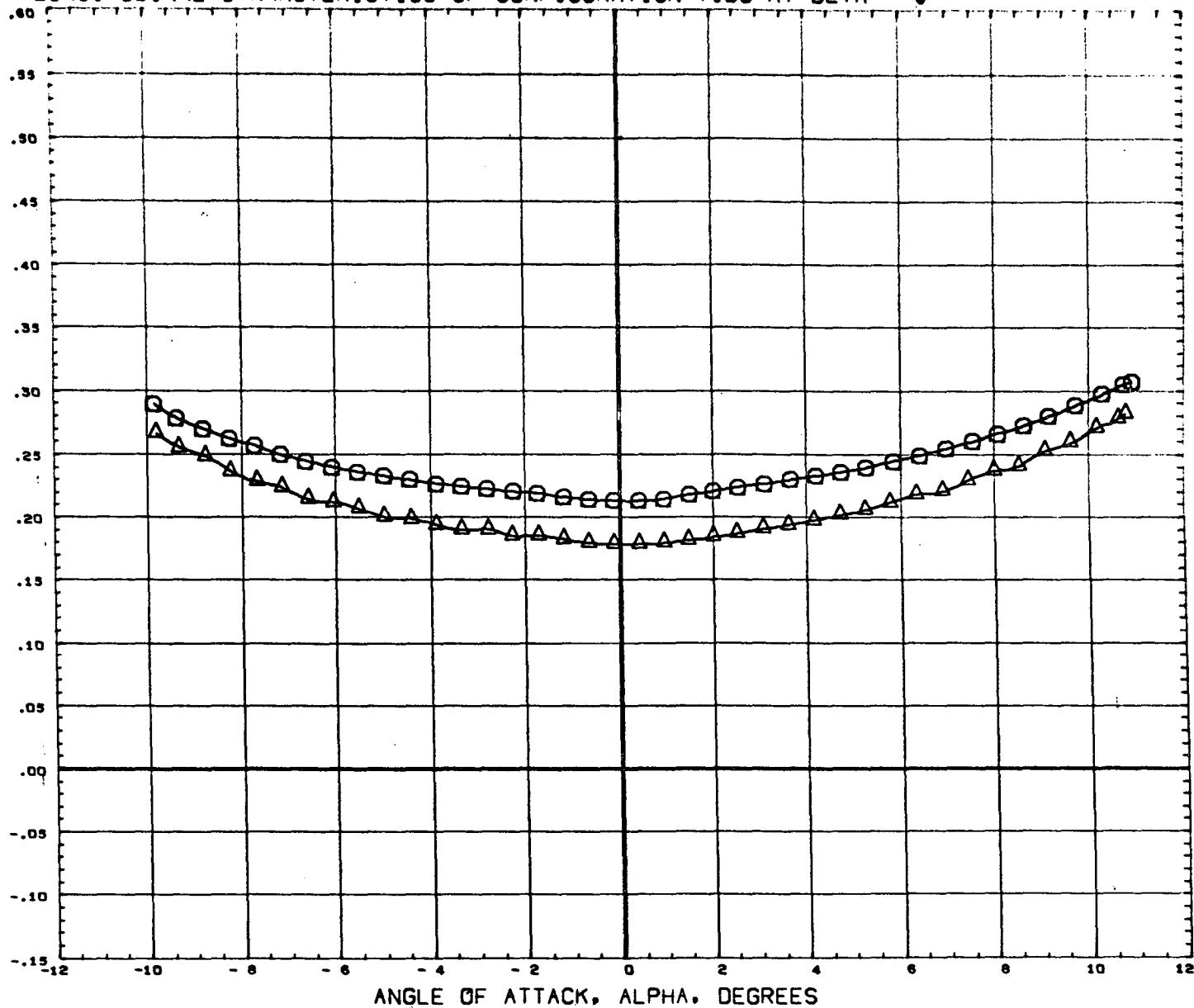
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XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T1B5

(CD7568) 12 SEP 72 PAGE 497

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES
	1.507	BETA 0.000
	2.203	

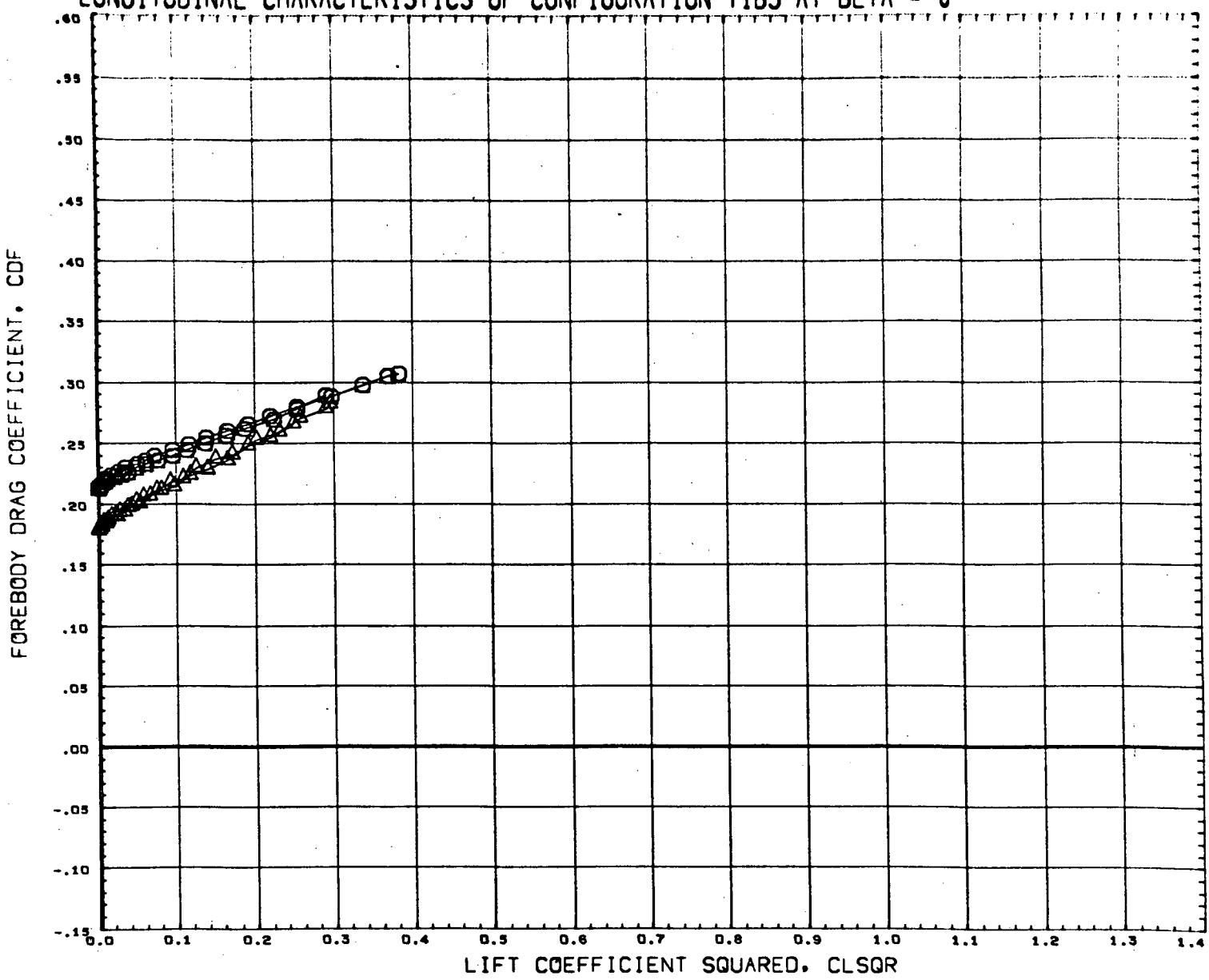
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ZMRP	200.0004	IN.
SCALE	0.0060	

DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T1B5

(CD7568) 12 SEP 72 PAGE 498

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0



SYMBOL	MACH	BETA	PARAMETRIC VALUES
	1.507		0.000
	2.203		

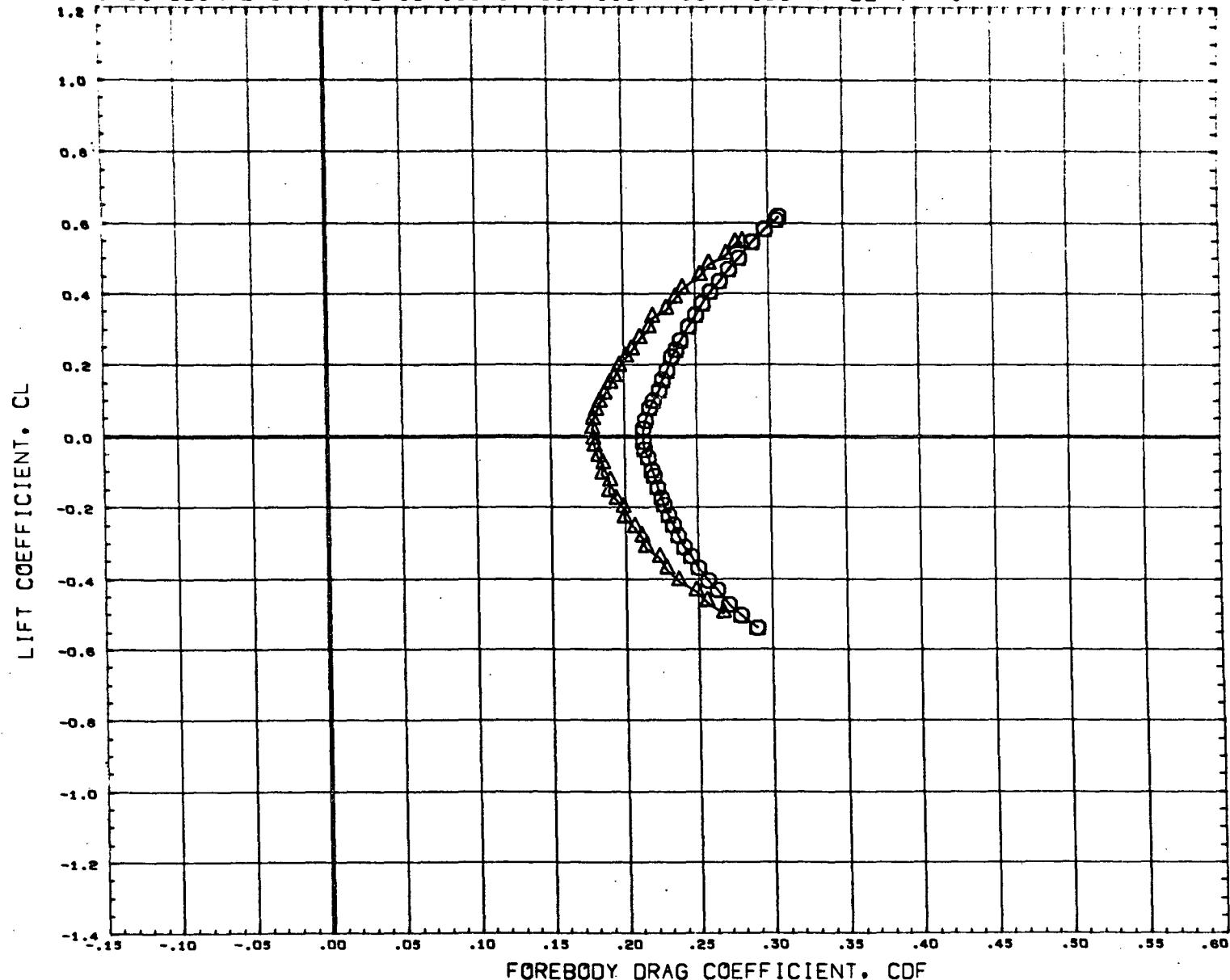
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ZMRP	200.0004	IN.
SCALE	0.0060	

DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T1B5

(CD7568) 12 SEP 72 PAGE 499

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES
	1.507	BETA 0.000
	2.203	

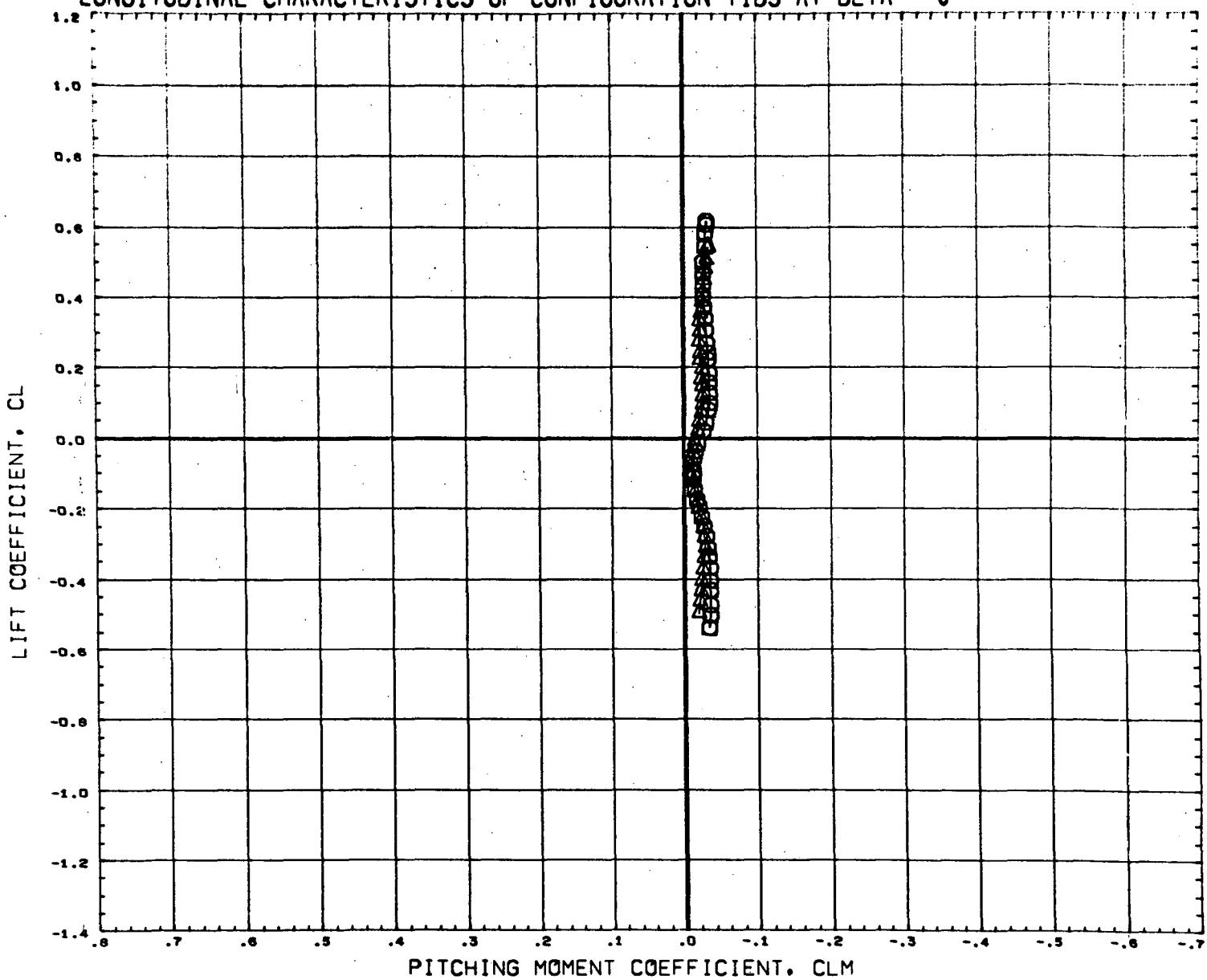
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YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

DATA HIST. CODE TV

MDAC S-222 COMPOSITE (T-CG) T1B5

(CD7568) 12 SEP 72 PAGE 500

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B5 AT BETA = 0



SYMBOL MACH PARAMETRIC VALUES
 O 1.507 0.000
 △ 2.203 0.000

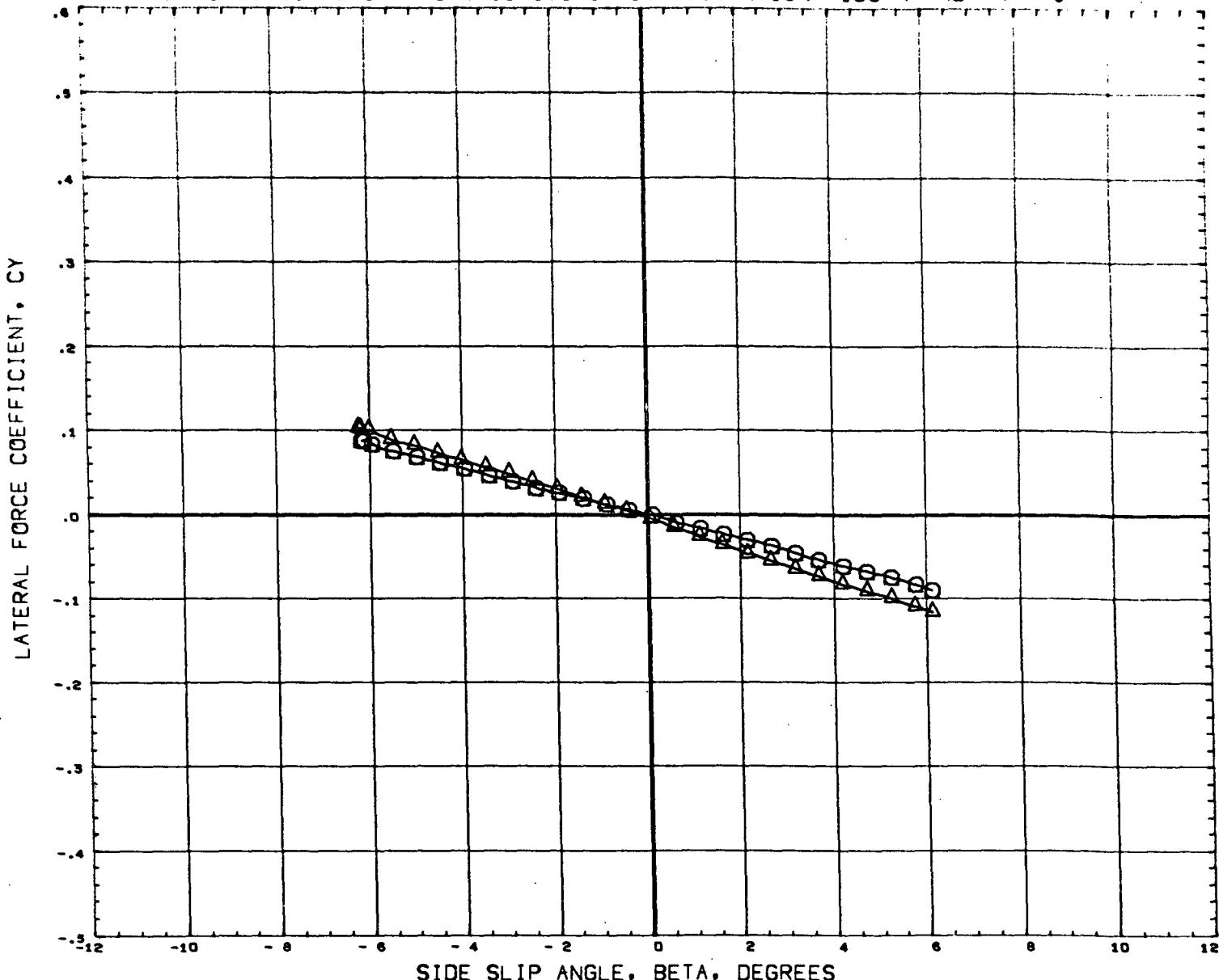
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T1B5

REFERENCE INFORMATION		
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BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

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LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T1B5 AT ALPHA = 0



SYMBOL	MACH	PARAMETRIC VALUES
	1.507	ALPHA 0.000
	2.203	

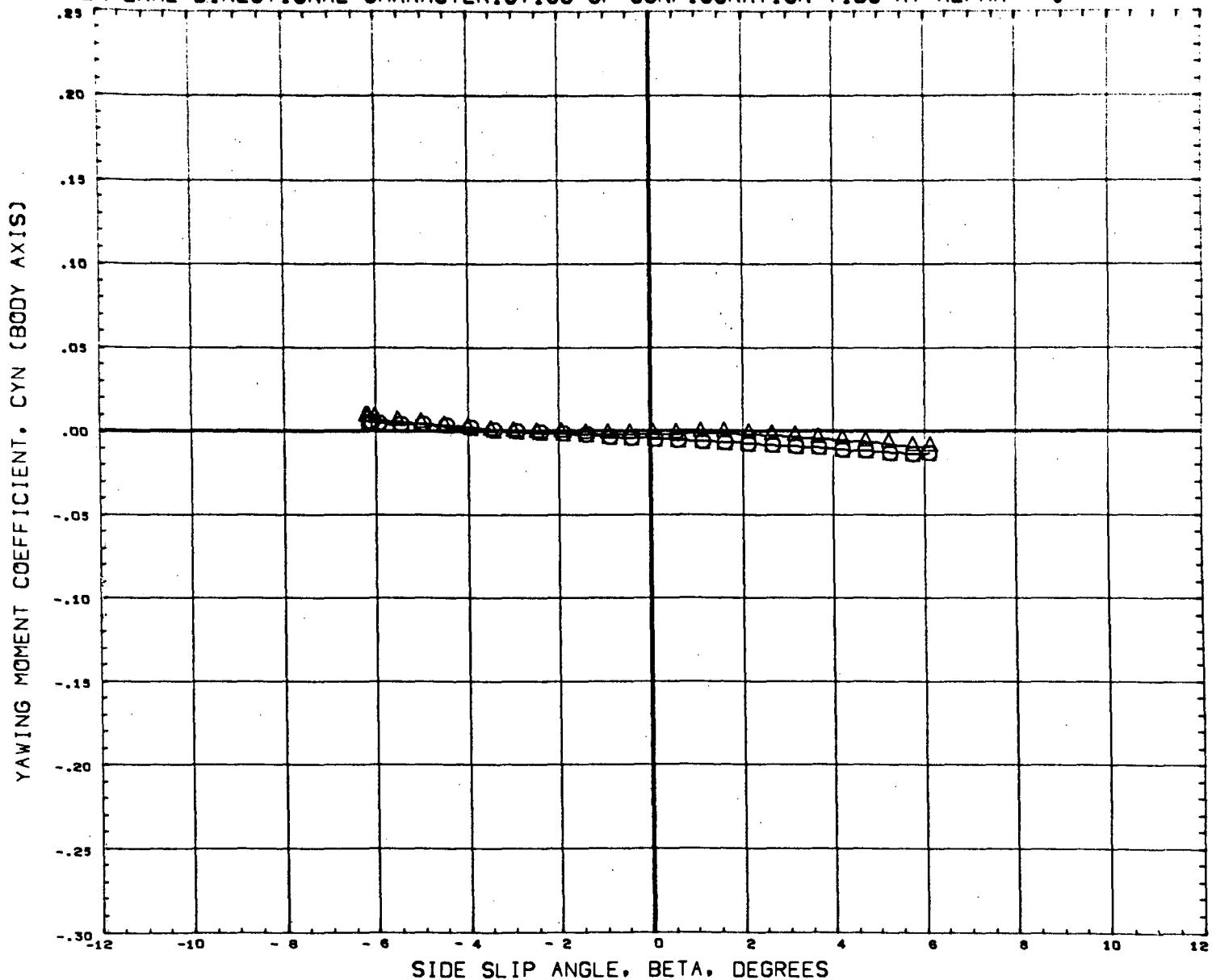
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MRP	200.0004	IN.
CALC	0.0000	

REFERENCE FILE

MDAC S-222 COMPOSITE (T-CG) T1B5

(RD7569) 17 MAR 72 PAGE 502

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T1B5 AT ALPHA = 0



SYMBOL	MACH	PARAMETRIC VALUES	
O	1.507	ALPHA 2.203	0.000

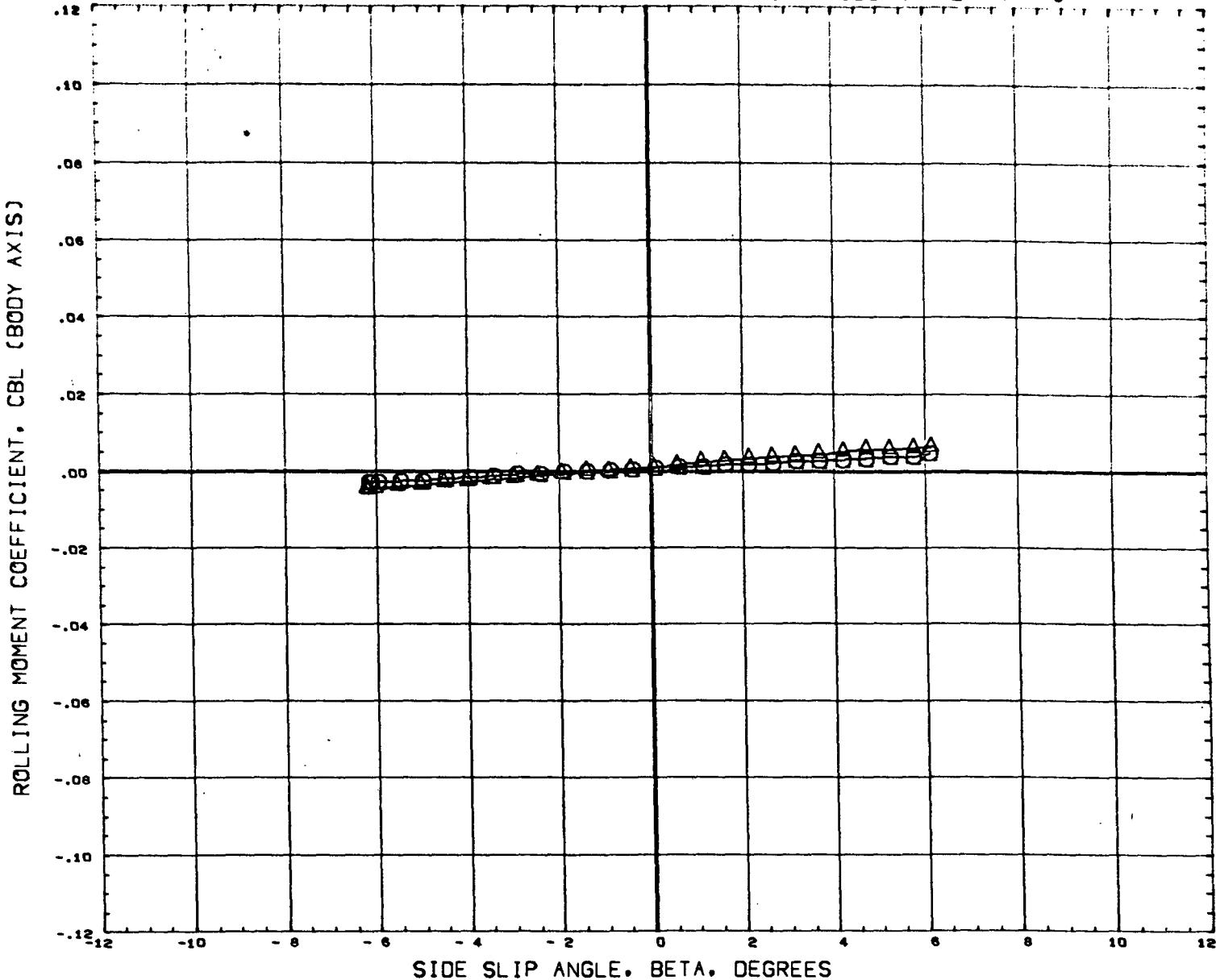
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MRP	0.0000	IN.
MRP	200.0004	IN.
CALE	0.0060	IN.

REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) T1BS

(RD7569) 17 MAR 72 PAGE 503

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T1B5 AT ALPHA = 0



SYMBOL	MACH	PARAMETRIC VALUES
	1.507	ALPHA 0.000
	2.203	

REFERENCE INFORMATION	
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LREF	609.3004
BREF	882.0004
XMRP	557.0004
YMRP	0.0000
ZMRP	200.0004
SCALE	0.0060

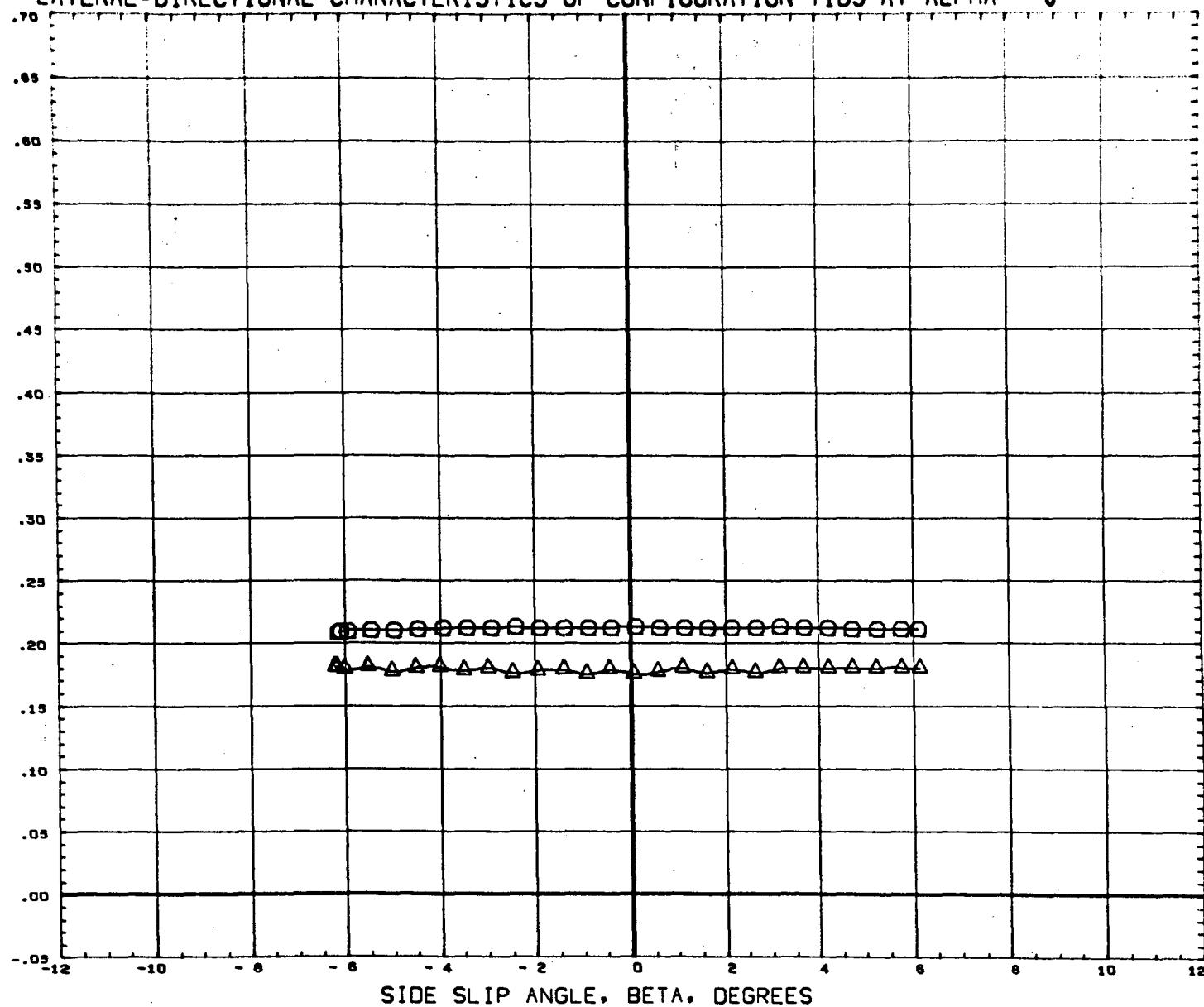
REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) T1B5

(RD7569) 17 MAR 72 PAGE 504

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T1B5 AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF



SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL MACH PARAMETRIC VALUES
 O 1.507 ALPHA 0.000
 △ 2.203

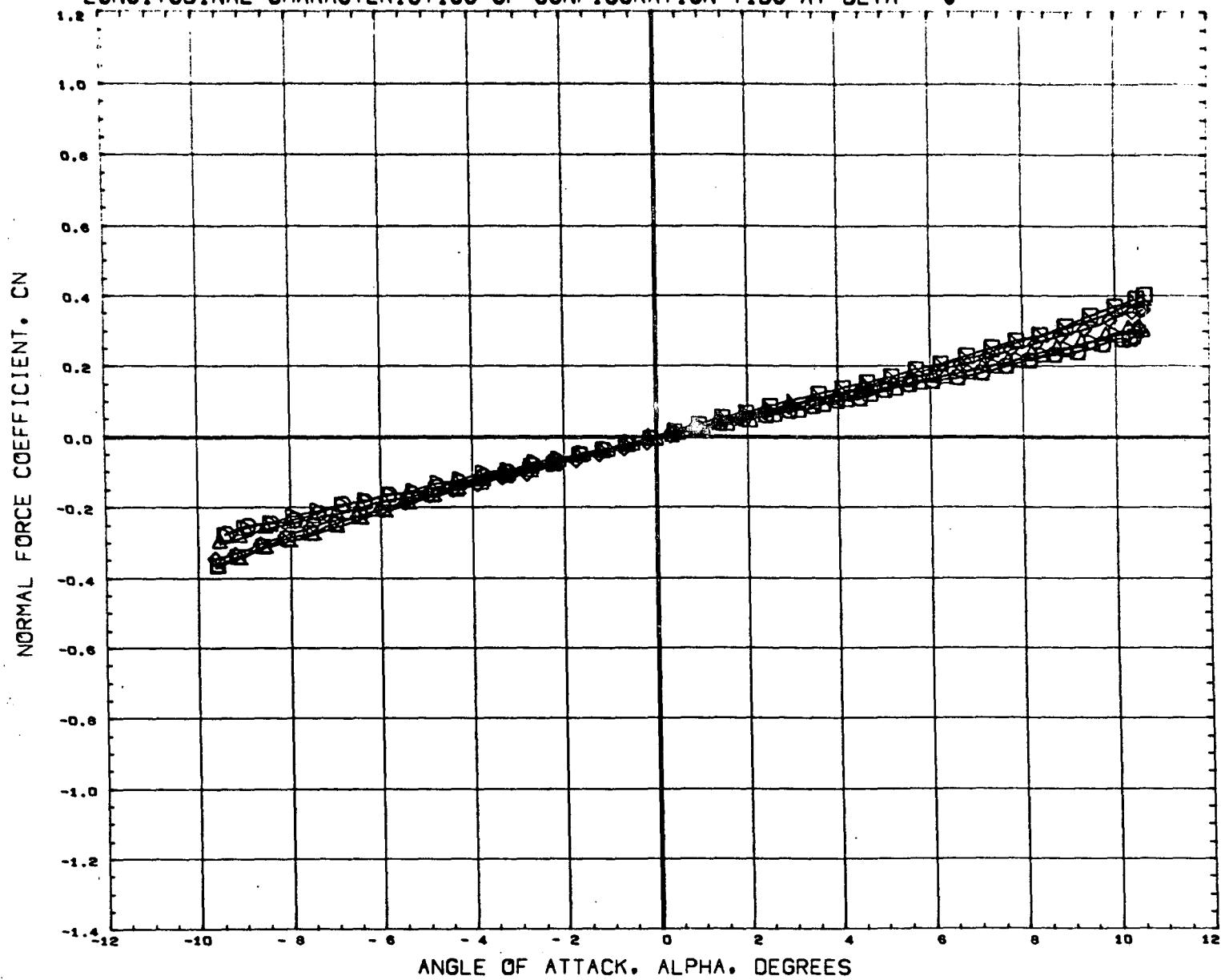
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 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) T1B5

(RD7569) 17 MAR 72 PAGE 505

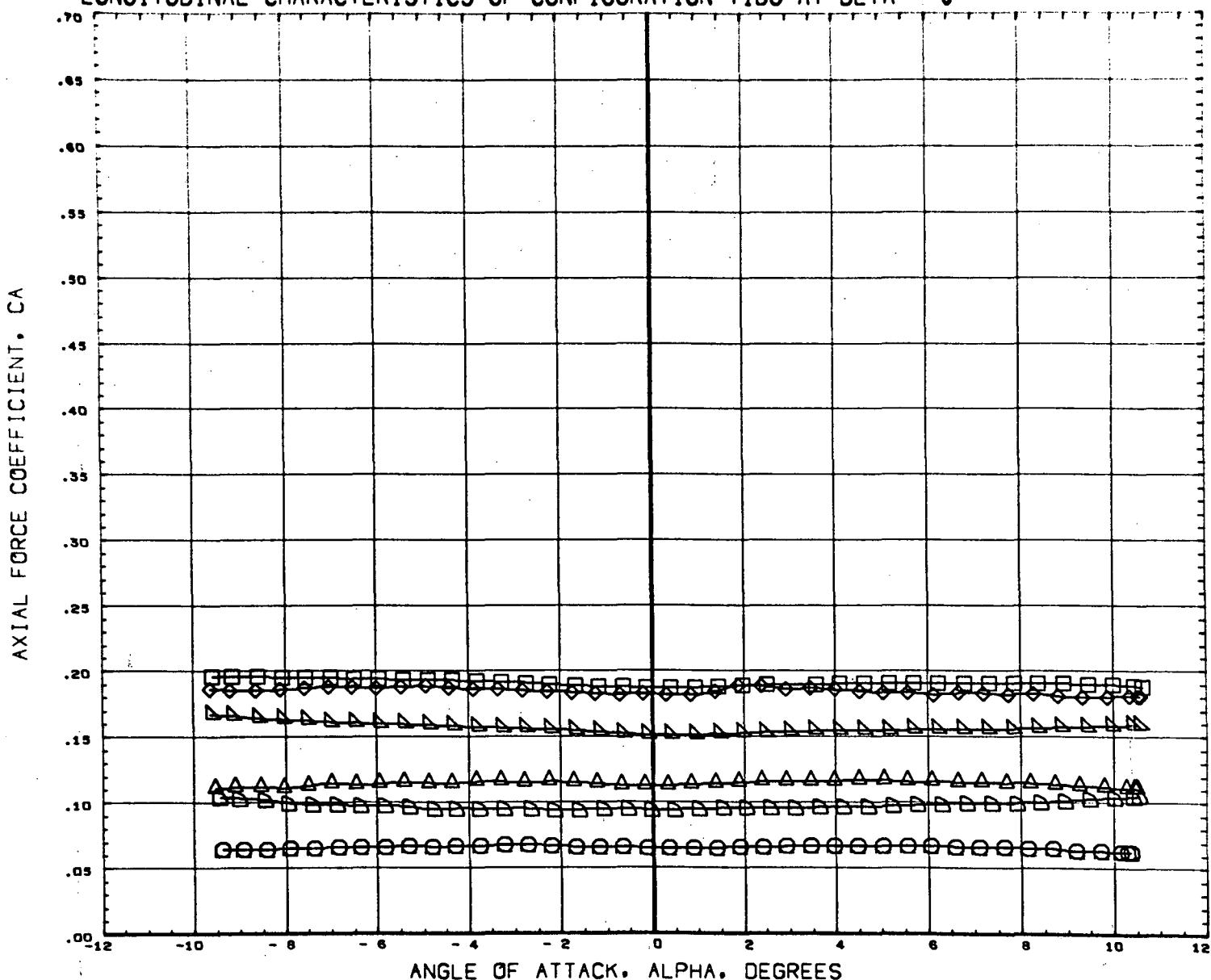
LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0



SYMBOL	MACH	BETA	PARAMETRIC VALUES
○	0.585	0.897	0.000
◊	1.094		
□	1.507		
△	2.203		
▽	4.469		DATA HIST. CODE ACTV

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0



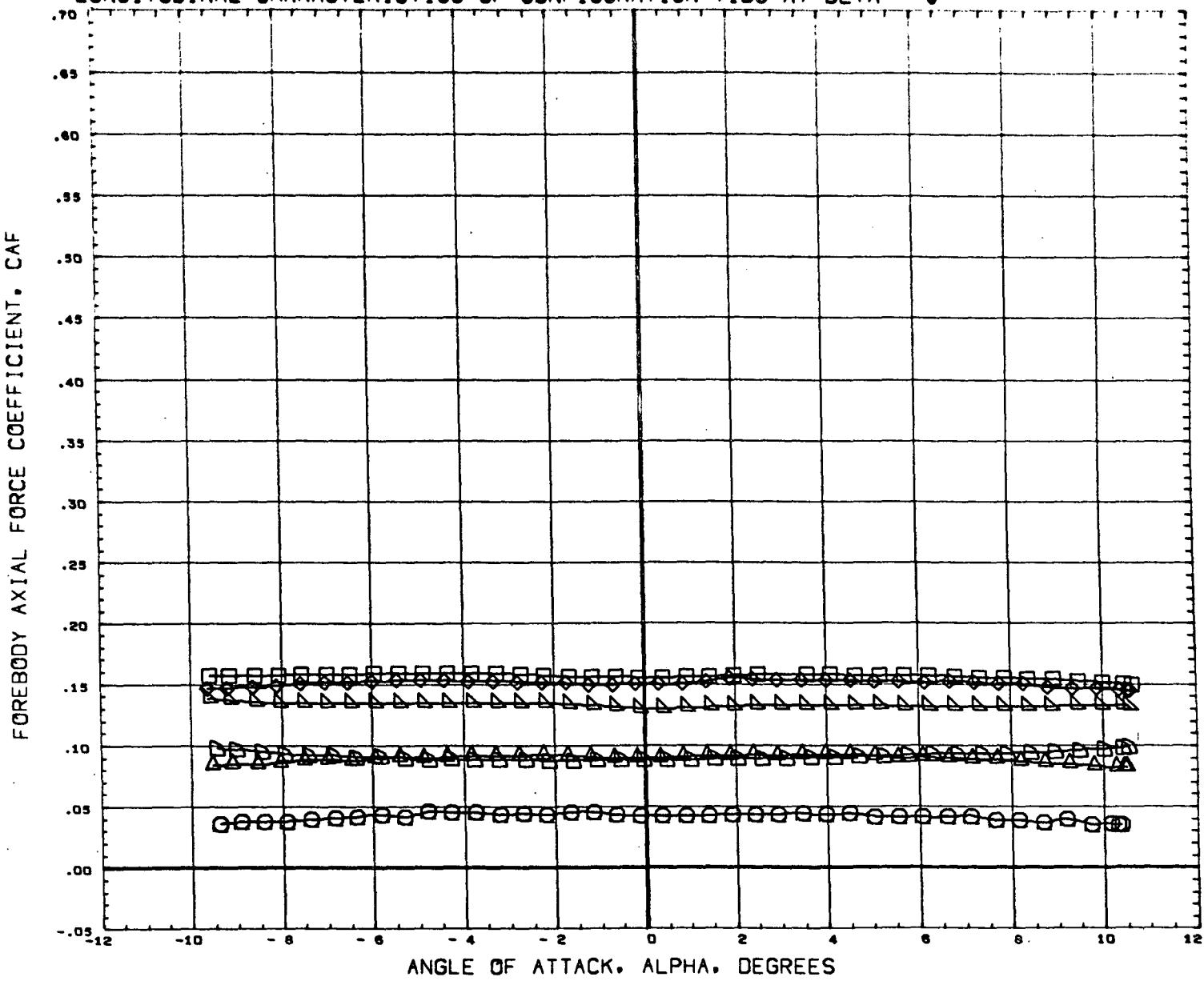
SYMBOL	MACH	BETA	PARAMETRIC VALUES
O	0.585		0.000
D	0.897		
D	1.094		
D	1.507		
D	2.203		
D	4.469	DATA HIST. CODE	*GTV

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0000	

MNAC S-222 COMPOSITE(T-CG) T1B6

(CD7570) 12 SEP 72 PAGE 507

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0



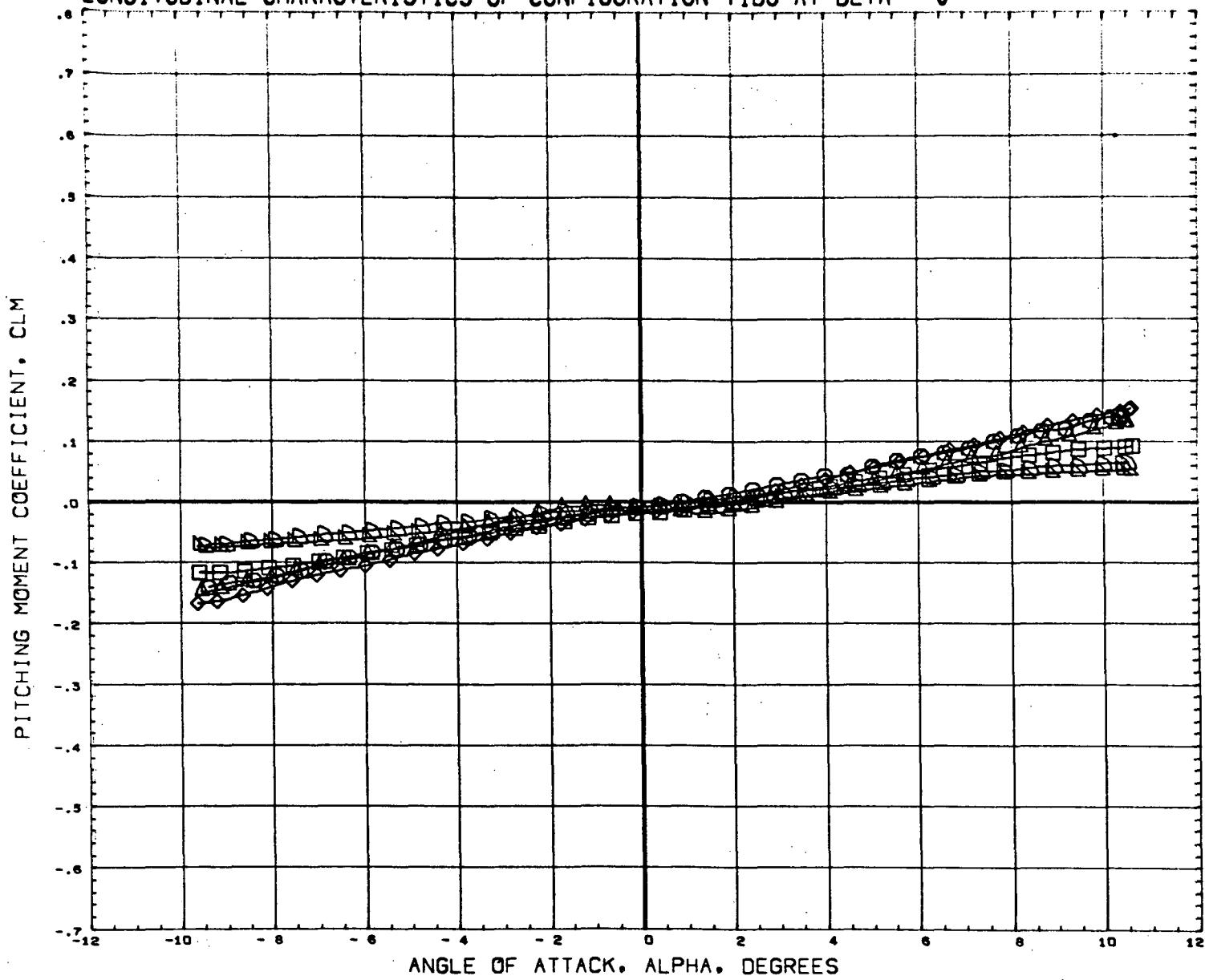
SYMBOL	MACH	PARAMETRIC VALUES
○	0.585	BETA
△	0.897	0.000
◊	1.094	
□	1.507	
■	2.203	
▢	4.469	DATA MIST. CODE #GTV

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.3004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

MDAC S-222 COMPOSITE(T-CG) T1B6

(CD7570) 12 SEP 72 PAGE 508

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES
O	0.585	BETA
△	0.897	
◊	1.094	
□	1.507	
▽	2.203	
D	4.469	DATA HIST. CODE *GTV

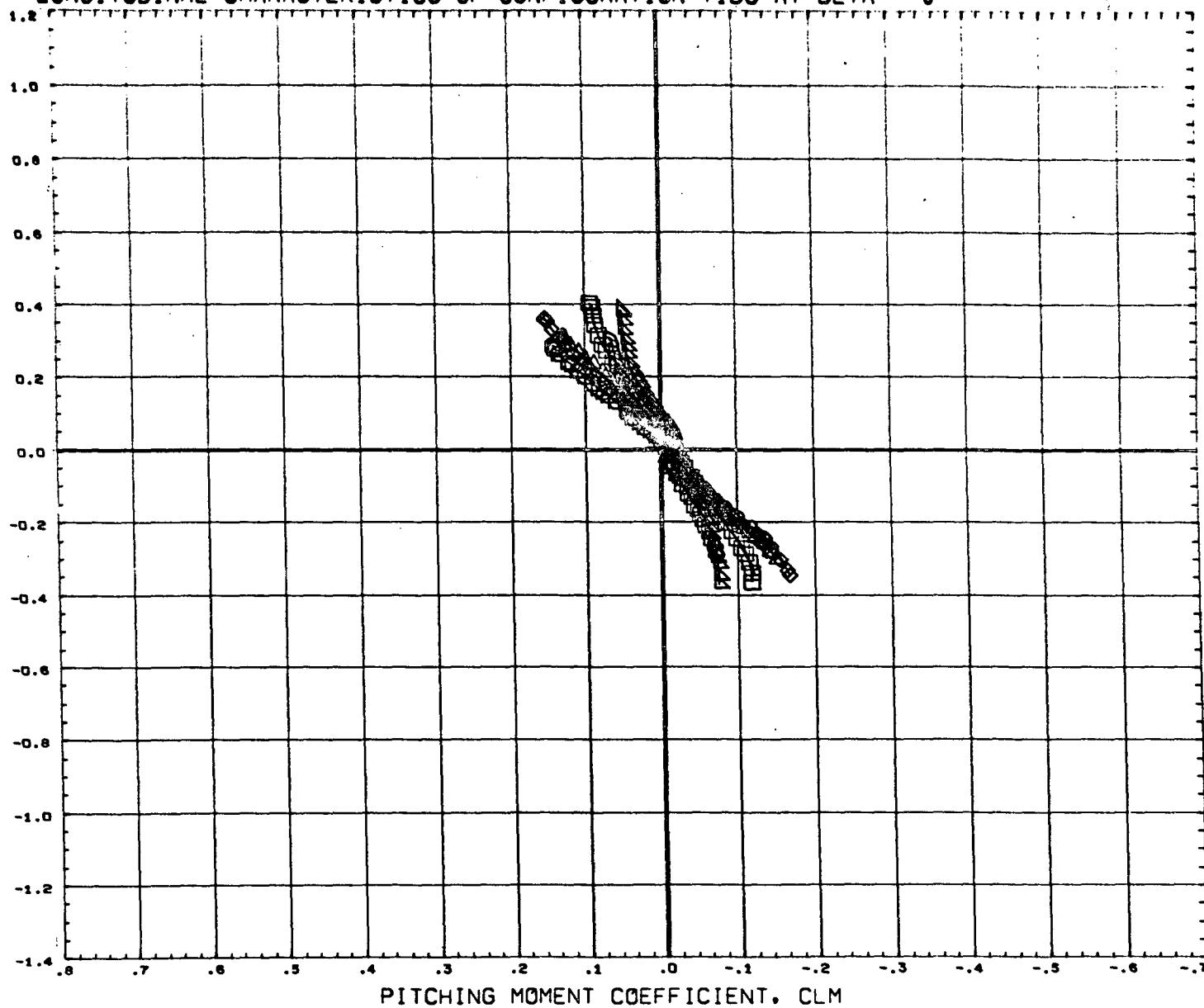
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BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

MDAC S-222 COMPOSITE(T-CG) T1B6

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LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0

NORMAL FORCE COEFFICIENT, CN



PITCHING MOMENT COEFFICIENT, CLM

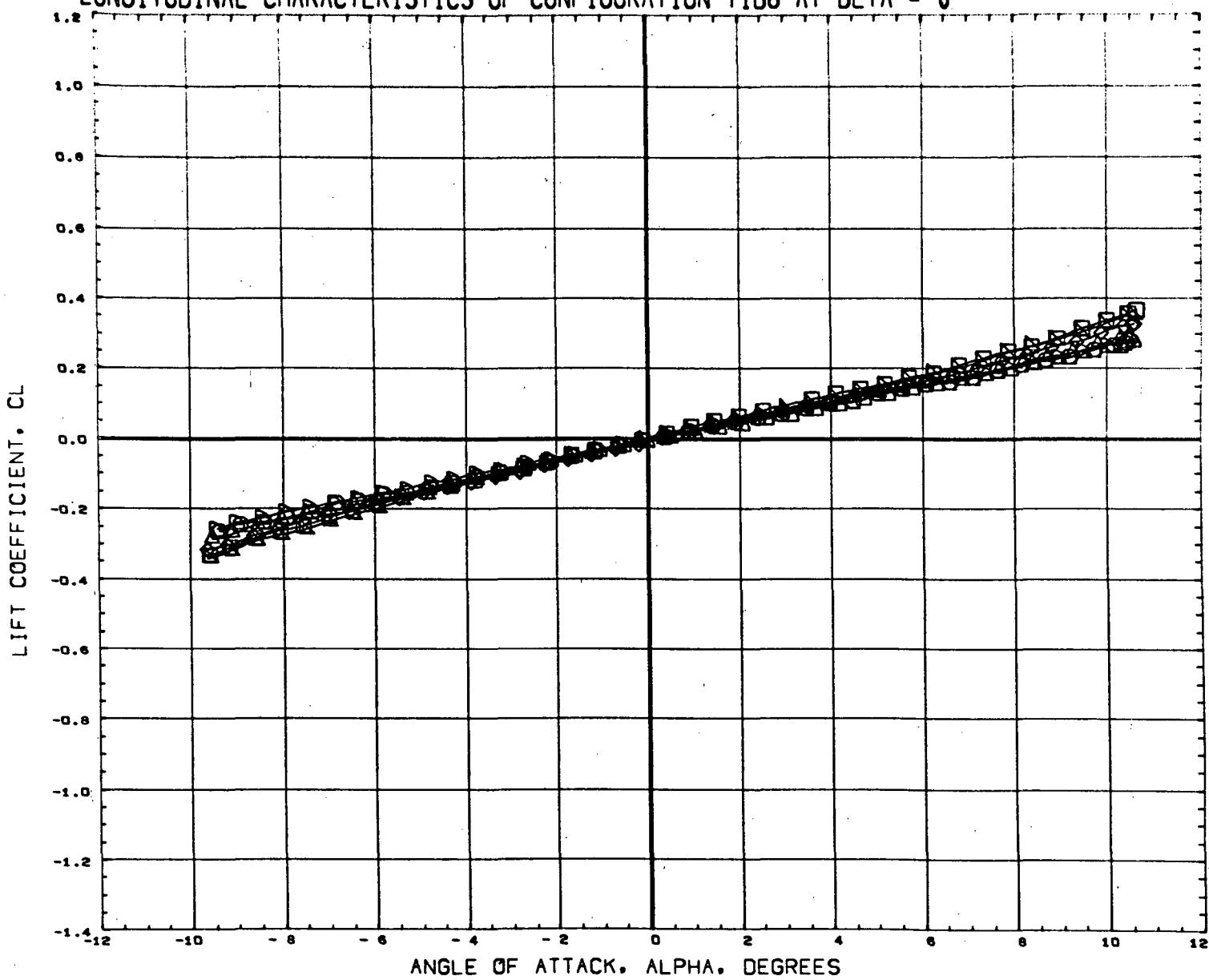
SYMBOL	MACH	BETA	PARAMETRIC VALUES
○	0.585		0.000
△	0.897		
◊	1.094		
□	1.507		
■	2.203		
▢	4.469	DATA HIST. CODE	*GTV

REFERENCE INFORMATION		
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YMRP	0.0000	IN.
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SCALE	0.0060	

MDAC S-222 COMPOSITE(T-CG) T1B6

(CD7570) 12 SEP 72 PAGE 510

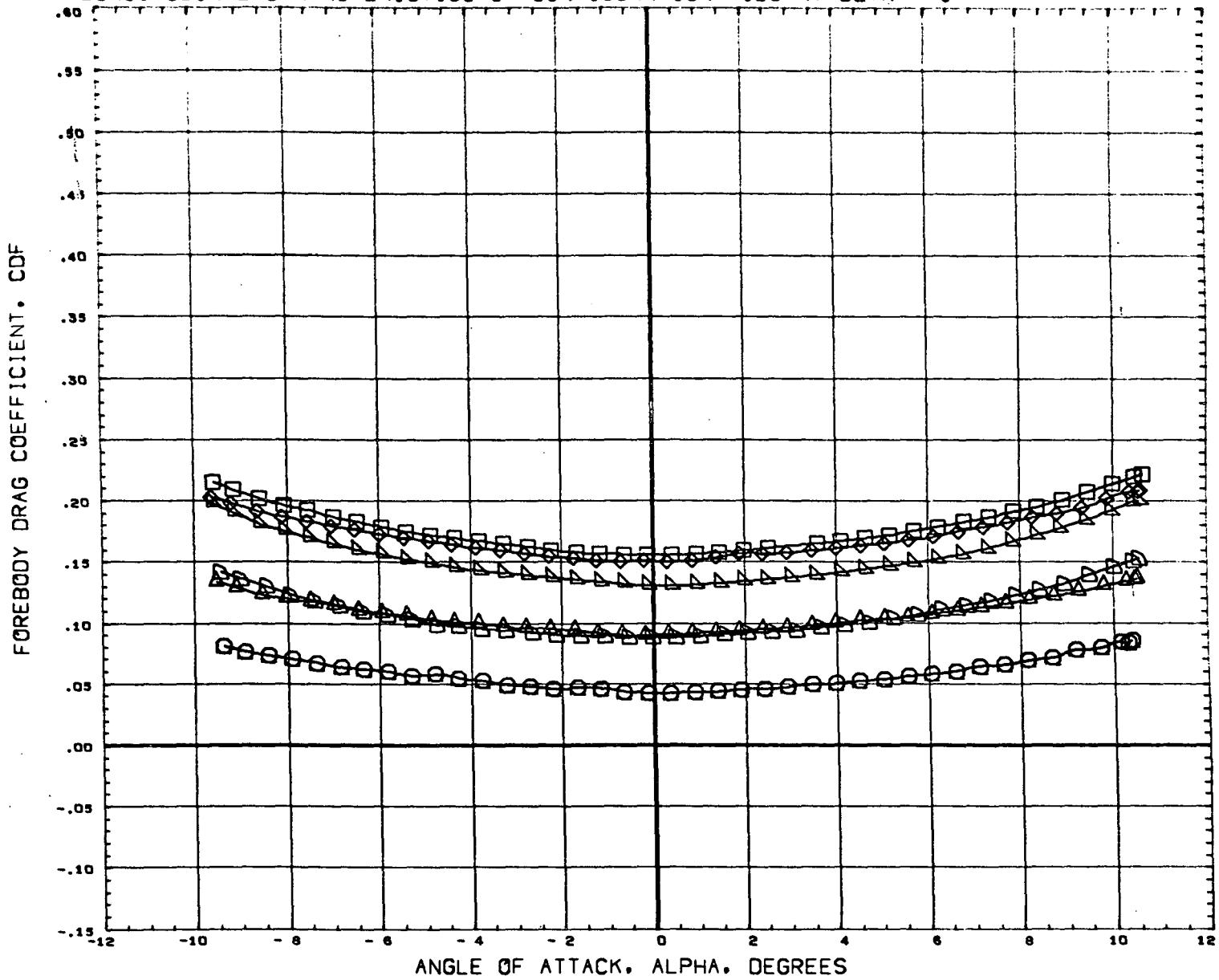
LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0



SYMBOL	MACH	BETA	PARAMETRIC VALUES
○	0.585		0.000
△	0.897		
◊	1.094		
□	1.507		
■	2.203		
□	4.469	DATA HIST. CODE	*GTV

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0



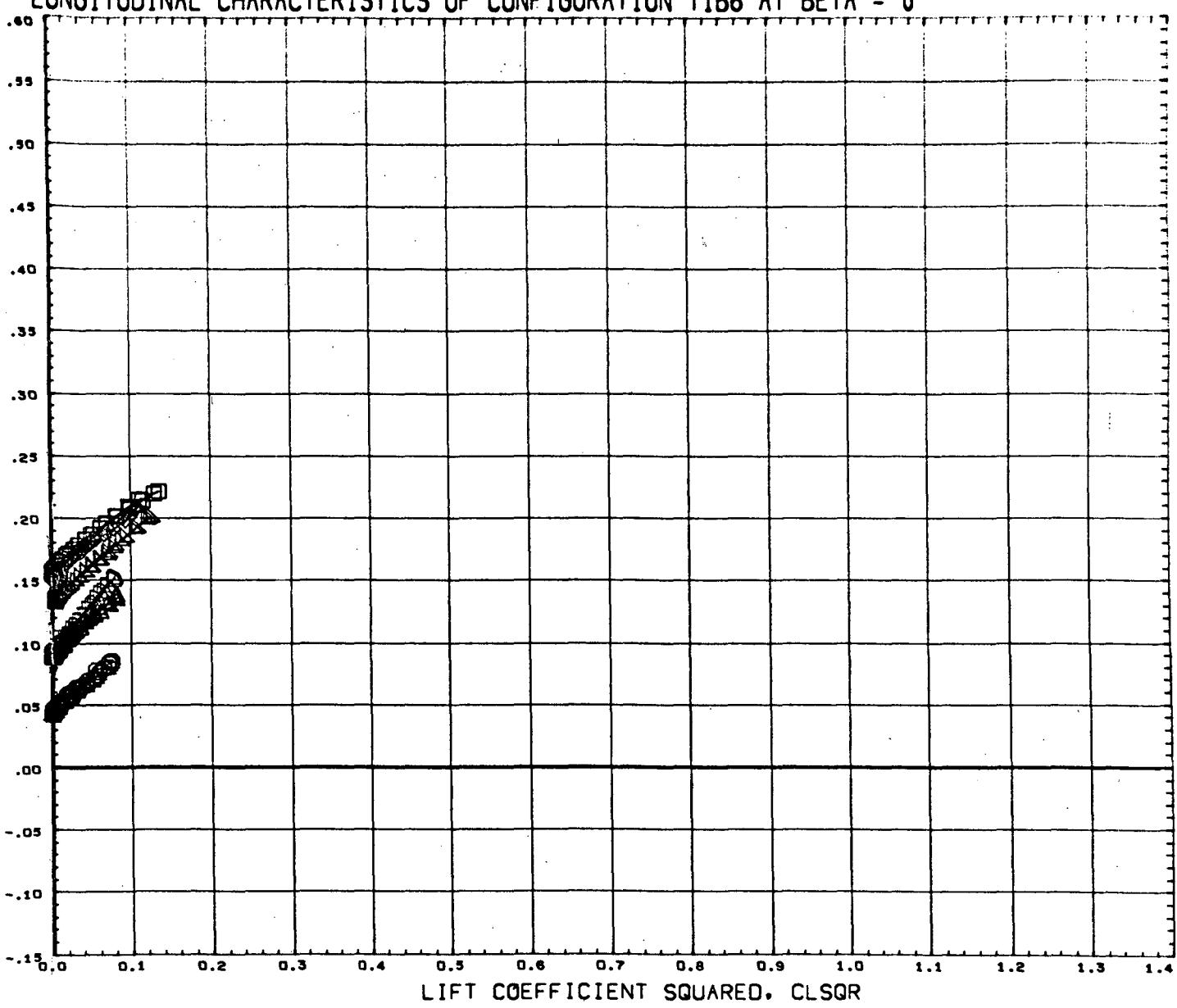
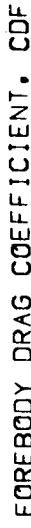
SYMBOL	MACH	PARAMETRIC VALUES
O	0.585	BETA 0.000
△	0.897	
◊	1.094	
□	1.507	
■	2.203	
D	4.469	DATA HIST. CODE #GTV

REFERENCE INFORMATION		
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REF	609.5004	IN.
REF	882.0004	IN.
MRP	557.0004	IN.
MRP	0.0000	IN.
MRP	200.0004	IN.
CALE	0.0060	

MDAC S-222 COMPOSITE(T-CG) T1B6

(CD7570) 12 SEP 72 PAGE 512

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0



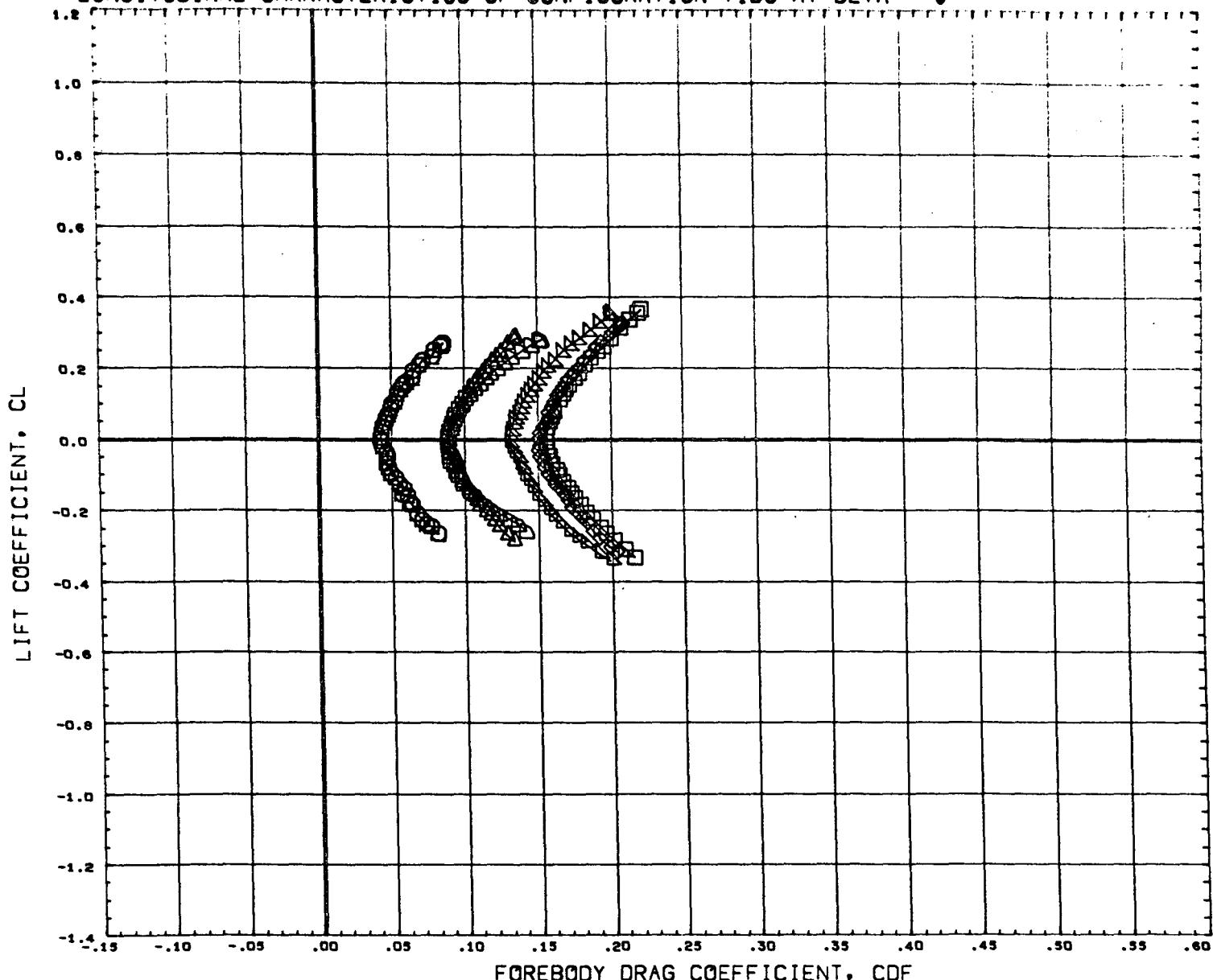
SYMBOL	MACH	PARAMETRIC VALUES
○	0.585	BETA 0.000
△	0.897	
◊	1.094	
□	1.507	
▽	2.203	
▷	4.469	DATA HIST. CODE #GTV

REFERENCE INFORMATION		
REF	3155.3040	SQ.FT.
REF	609.5004	IN.
REF	882.0004	IN.
MRP	557.0004	IN.
MRP	0.0000	IN.
MRP	200.0004	IN.
CALE	0.0060	

MDAC S-222 COMPOSITE(T-CG) T1B6

(CD7570) 12 SEP 72 PAGE 513

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T1B6 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES	
○	0.585	BETA	0.000
△	0.897		
◊	1.094		
□	1.507		
□	2.203		
▽	4.469	DATA MIST. CODE	#GTV

• [View Details](#) • [Edit Details](#) • [Delete](#)

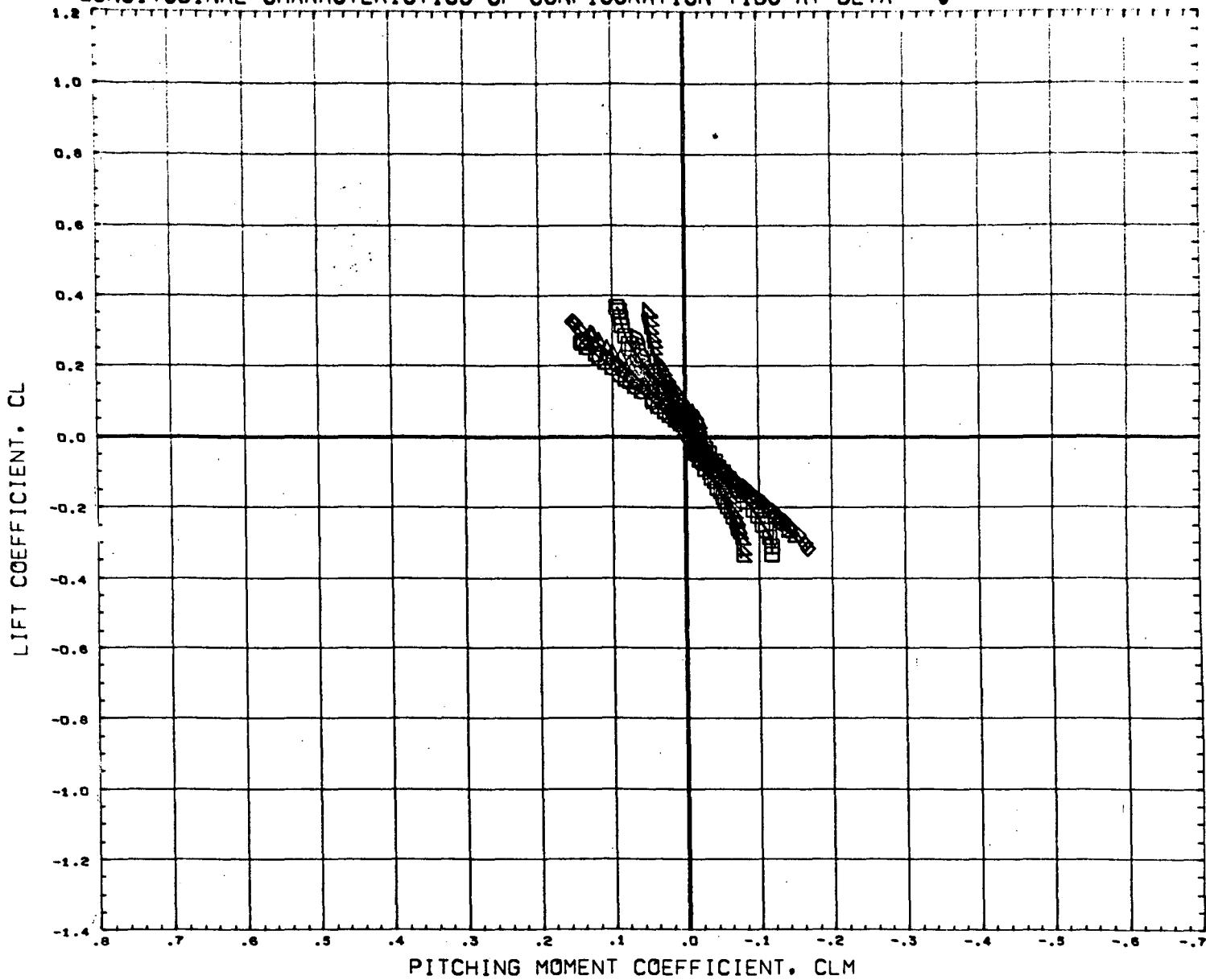
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XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

MDAC S-222 COMPOSITE(T-CG) T1B6

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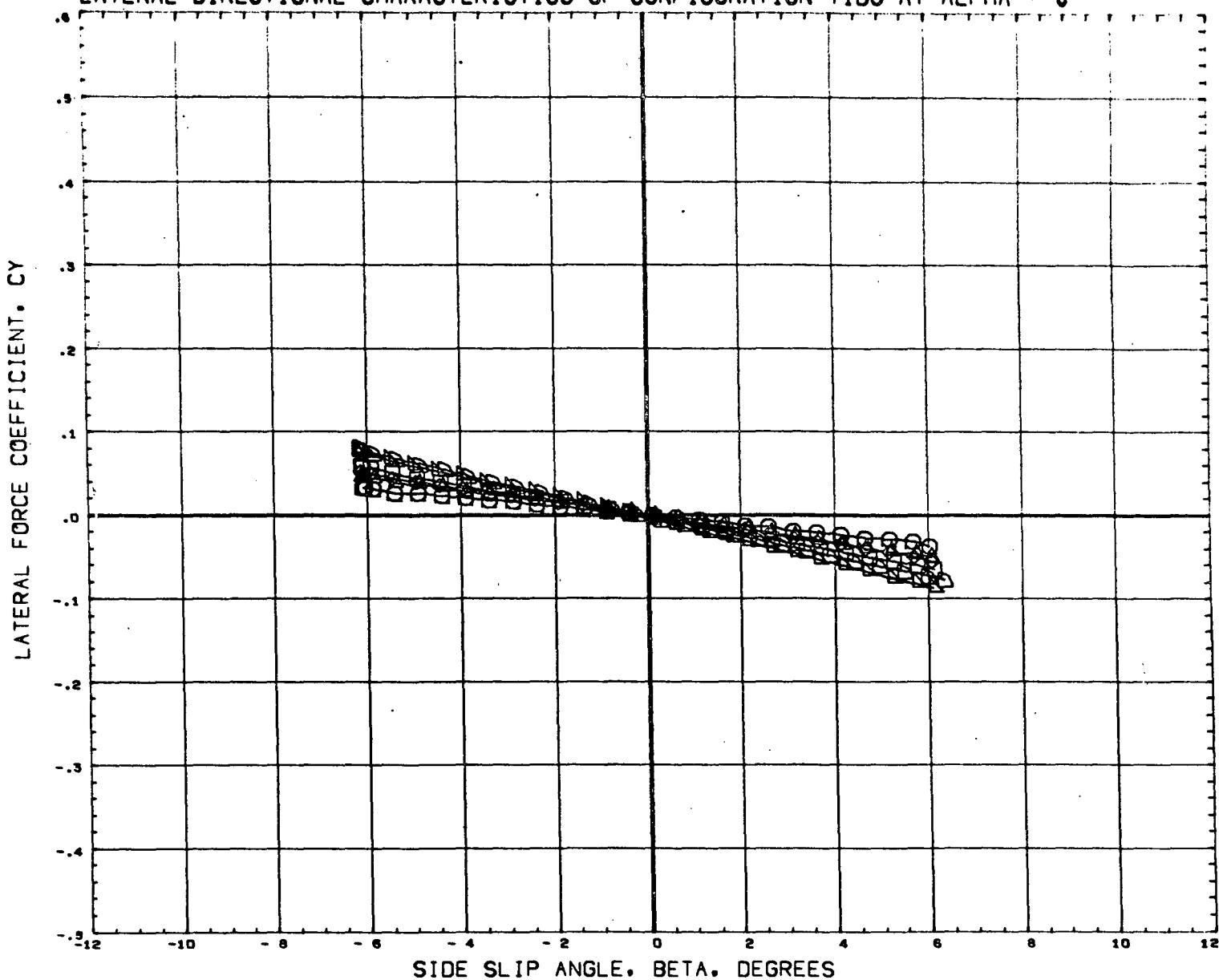
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SYMBOL	PARAMETRIC VALUES	
	MACH	BETA
○	0.585	0.000
△	0.697	
◊	1.094	
□	1.507	
▷	2.203	
□	4.469	DATA HIST. CODE #GTV

REFERENCE INFORMATION		
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XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T1B6 AT ALPHA = 0

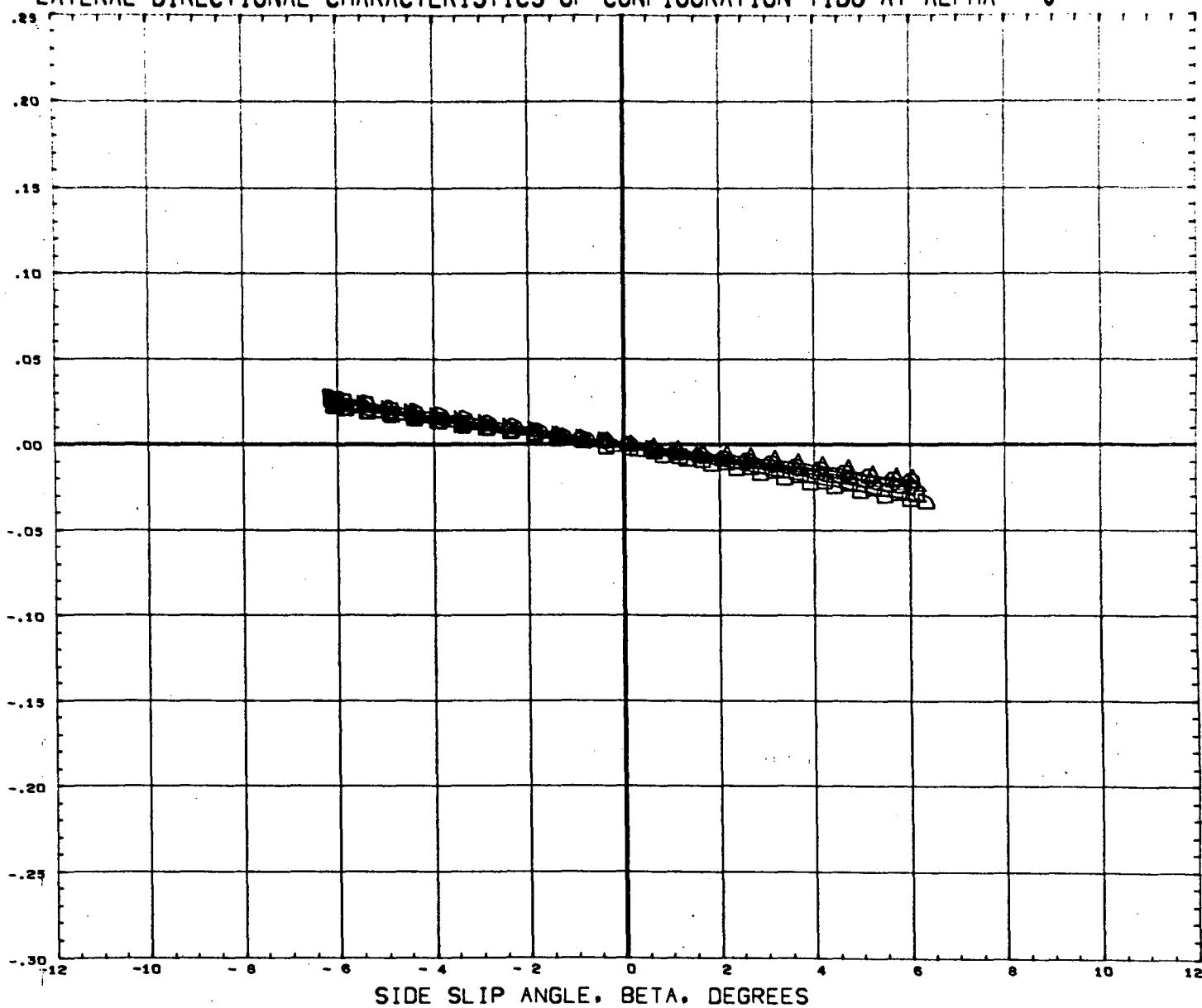


SYMBOL	MACH	PARAMETRIC VALUES
O	0.589	ALPHA 0.000
D	0.893	
D	1.093	
D	1.507	
D	2.203	
D	4.469	REFERENCE FILE

REFERENCE INFORMATION		
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BREF	882.0004	IN.
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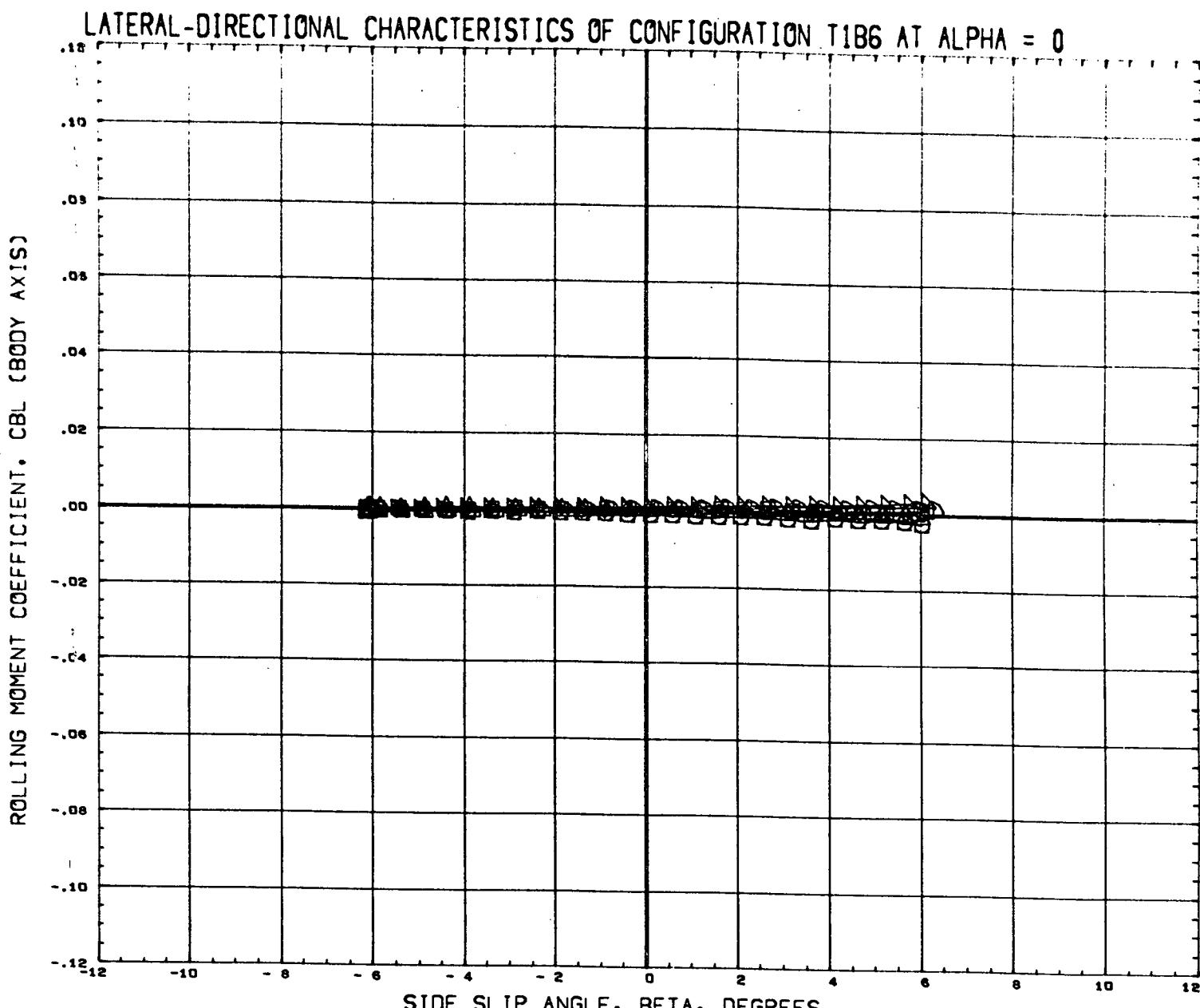
YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL	MACH	PARAMETRIC VALUES
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\diamond	0.893	
\square	1.093	
$\square \diagdown$	1.507	
$\square \diagup$	2.203	
\square	4.469	REFERENCE FILE

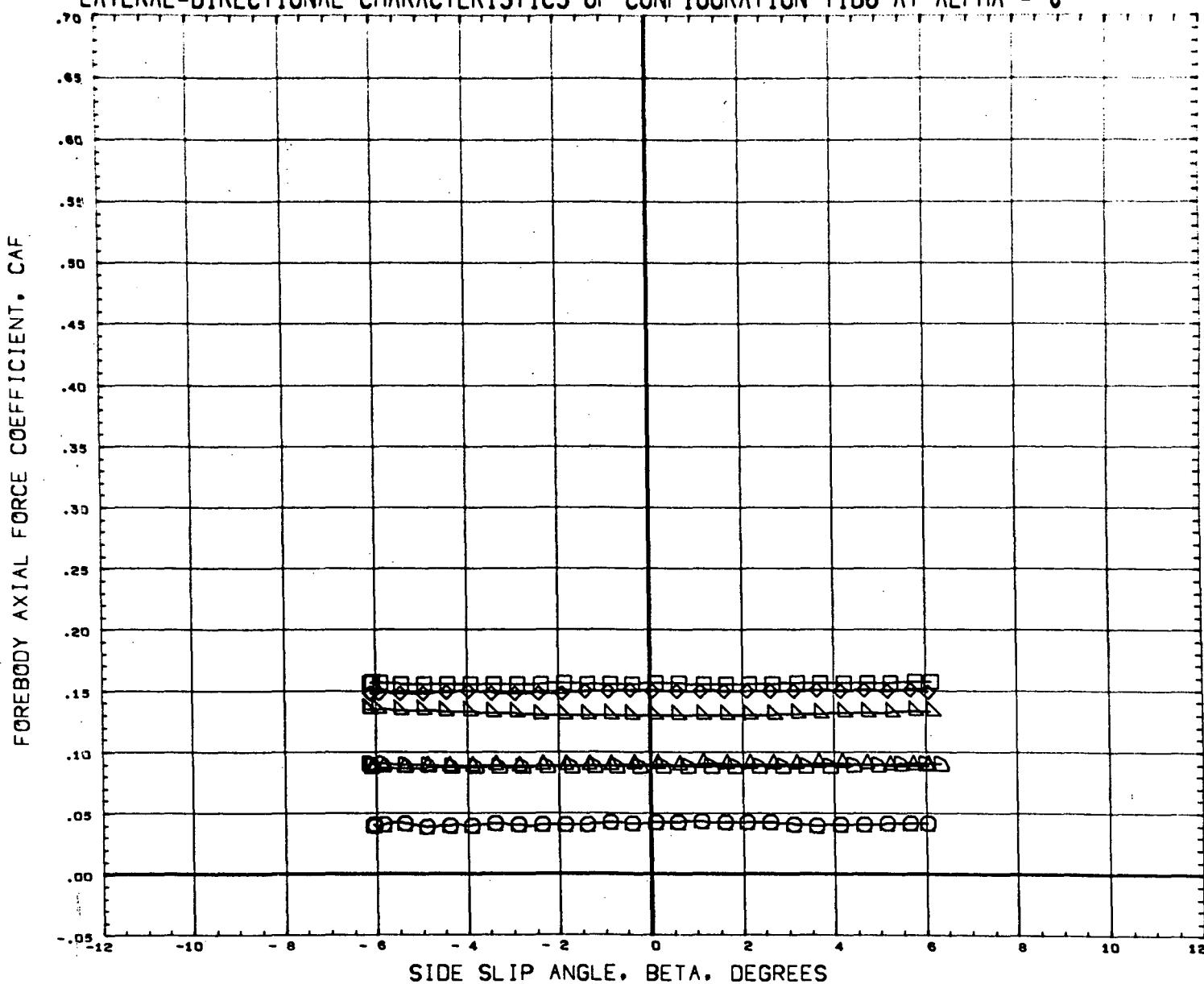
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XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	



SYMBOL	MACH	PARAMETRIC VALUES
○	0.589	ALPHA 0.000
◊	0.893	
△	1.093	
▽	1.507	
□	2.203	
■	4.469	REFERENCE FILE

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
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LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T1B6 AT ALPHA = 0



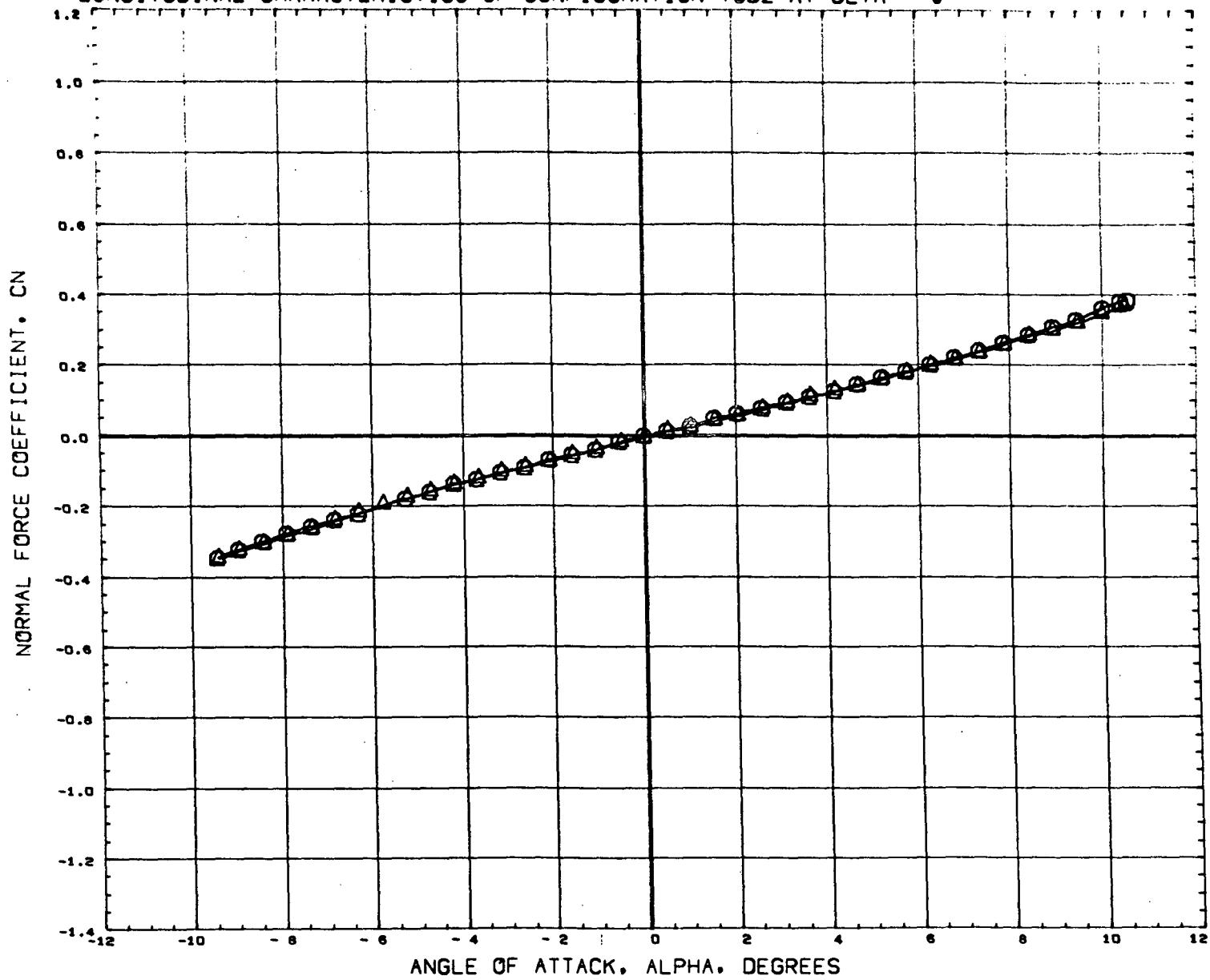
SYMBOL	MACH	PARAMETRIC VALUES
	0.589	ALPHA 0.000
	0.893	
	1.093	
	1.507	
	2.203	
	4.469	REFERENCE FILE

REFERENCE INFORMATION		
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LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

MDAC S-222 COMPOSITE(T-CG) T1B6

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LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	BETA	0.000	AIRLON	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

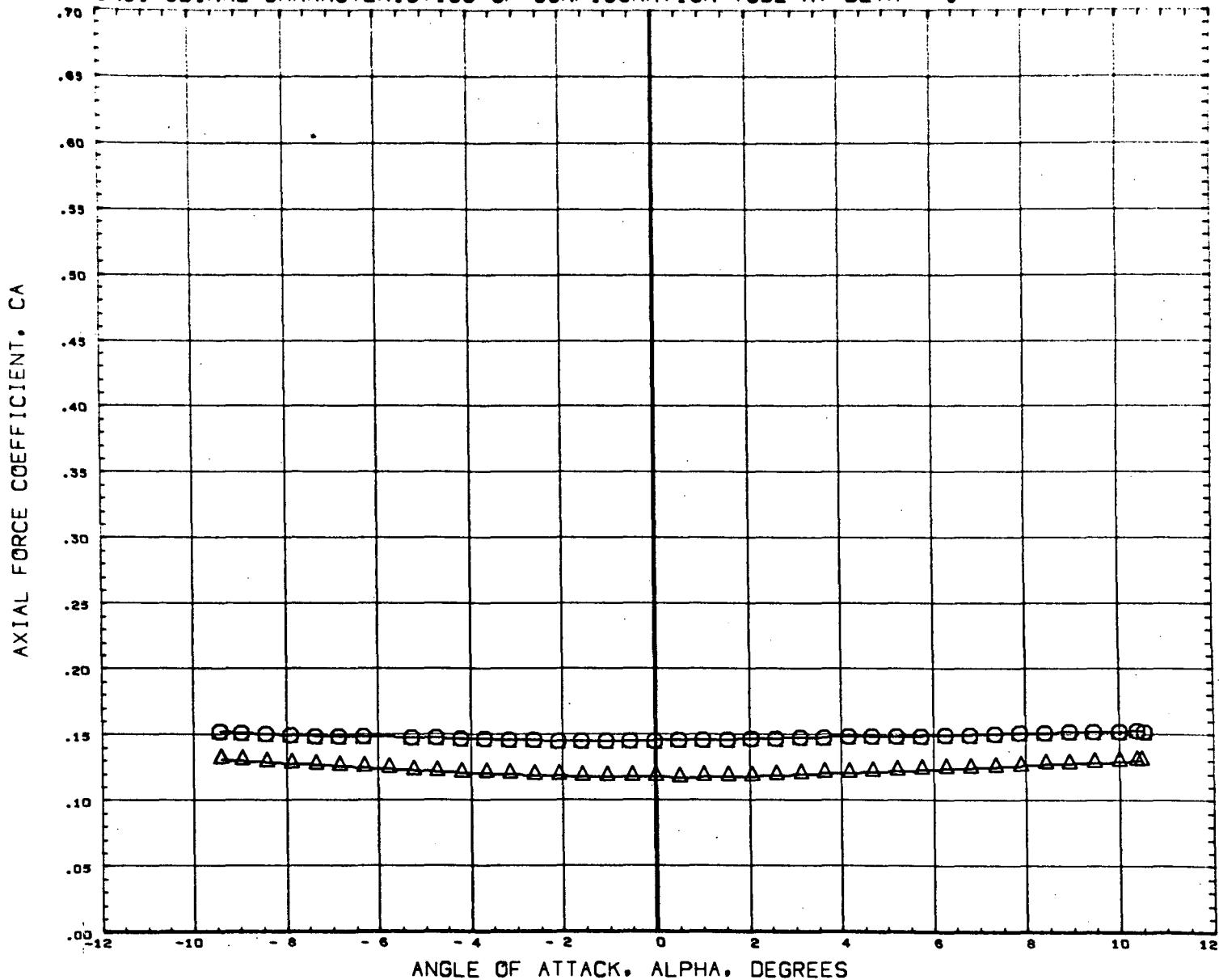
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BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

DATA HIST. CODE *GTV

MDAC S-222 COMPOSITE(T-CG) T3B2

(CD7544) 12 SEP 72 PAGE 520

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	BETA	0.000	AIRLON	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

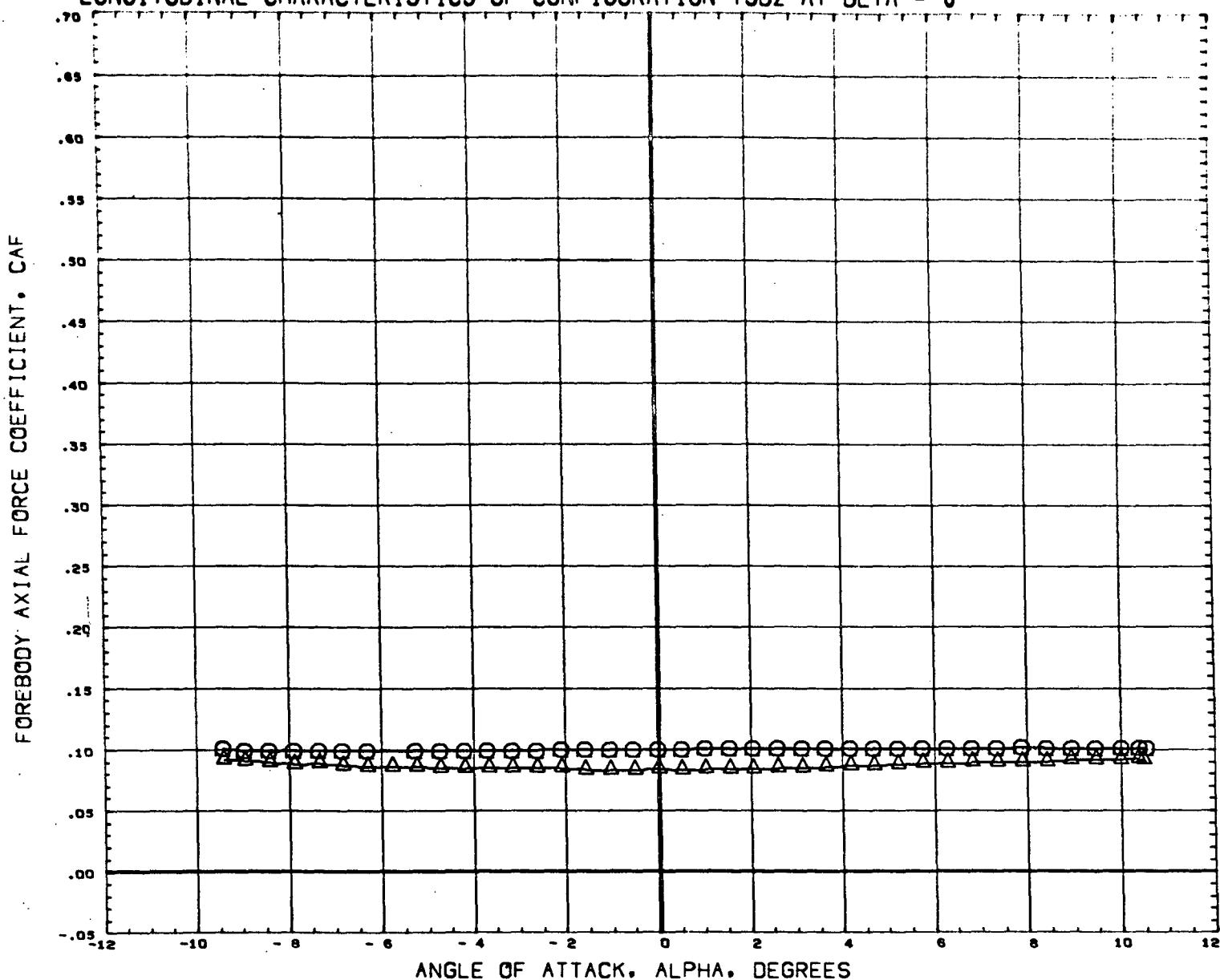
DATA MIST CODE ACTV

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
SREF	609.5004	IN.
BREF	862.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

MDAC S-222 COMPOSITE(T-CG) T3B2

{CD7544} 12 SEP 72 PAGE 521

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	BETA	0.000	AILRDN	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

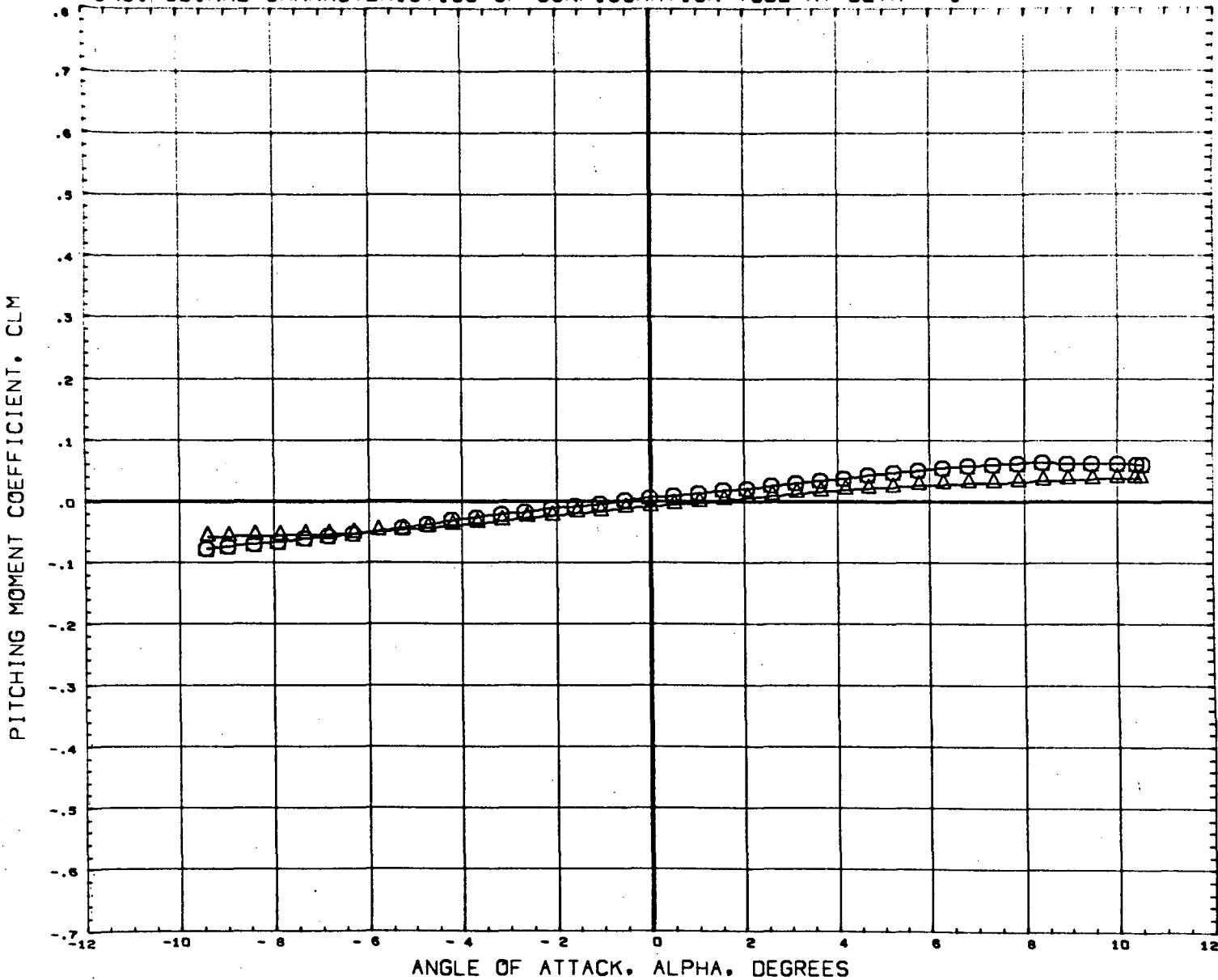
REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

DATA HIST. CODE *GTV

MOAC S-222 COMPOSITE(T-CG) T3B2

(CD7544) 12 SEP 72 PAGE 522

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	BETA	0.000	AILRDN	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

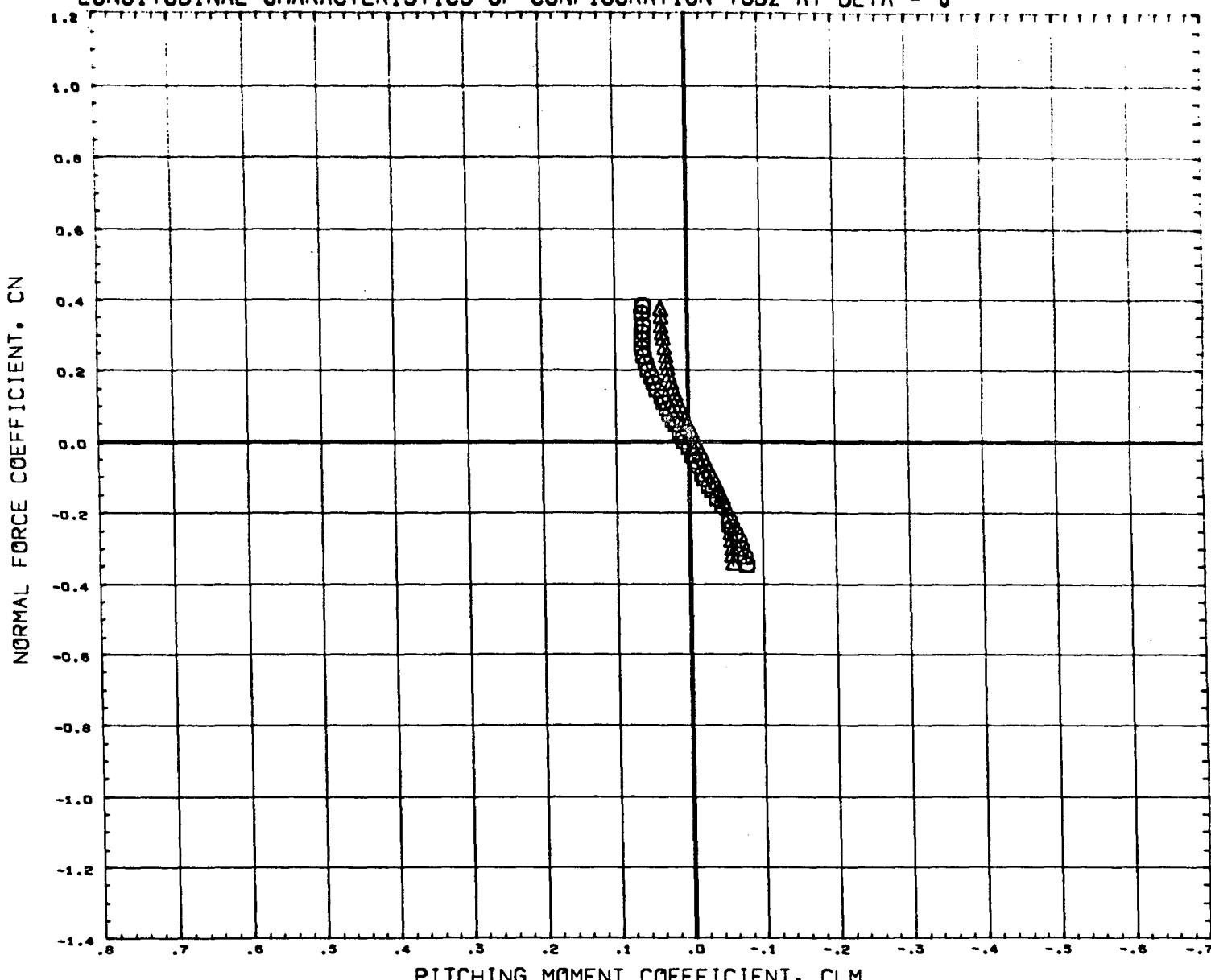
REFERENCE INFORMATION		
REF	3155.3040	SQ.FT.
REF	609.5004	IN.
REF	882.0004	IN.
MRP	557.0004	IN.
MRP	0.0000	IN.
MRP	200.0004	IN.
CALE	0.0060	IN.

DATA HIST. CODE: 2GTV

MDAC S-222 COMPOSITE(T-CG) T3B2

(CD7544) 12 SEP 72 PAGE 523

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES		
O	1.507	BETA	0.000	AILRON 0.000
A	2.203	ELEVTR	0.000	RUDDER 0.000

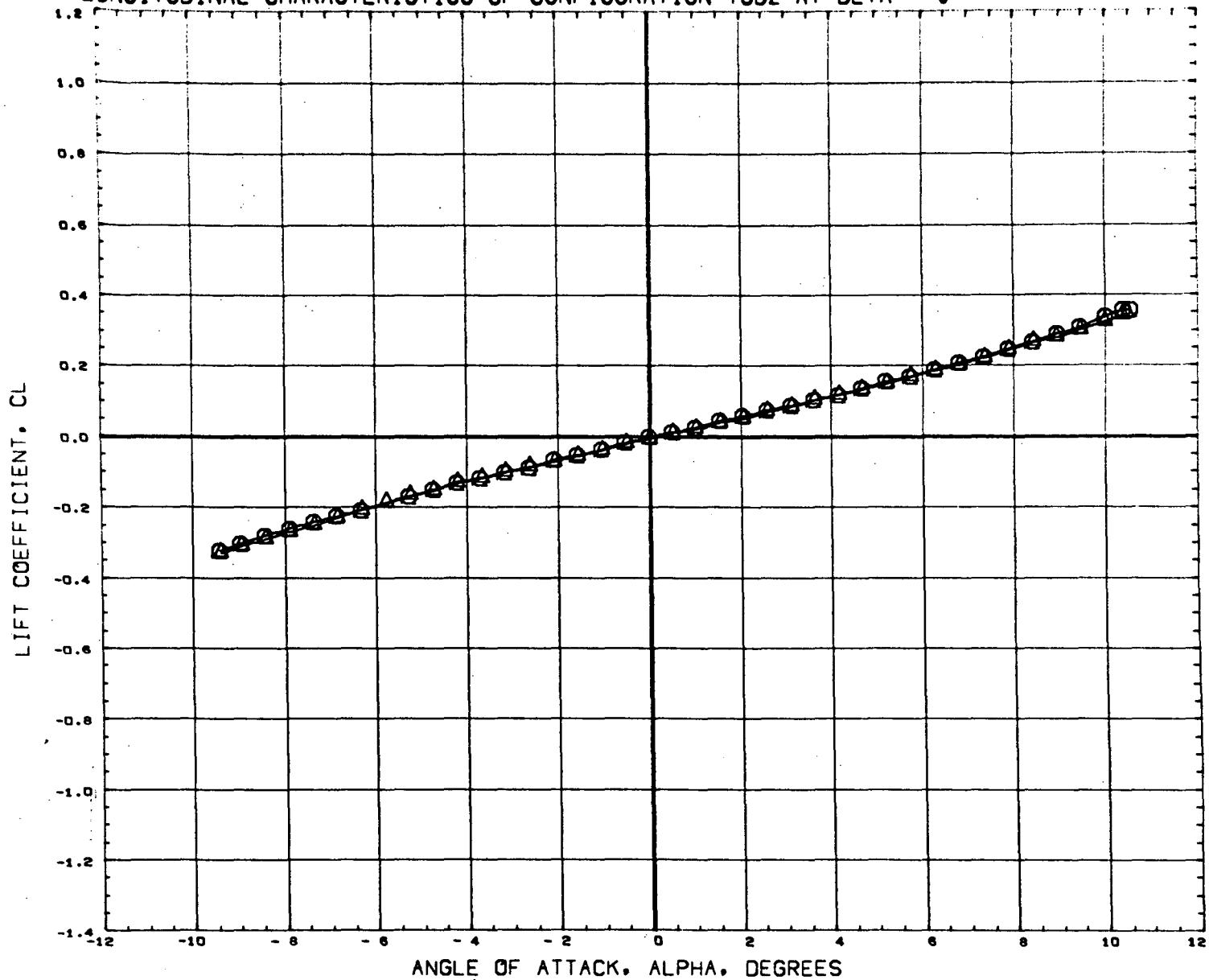
DATA HIST. CODE *GTV

MDAC S-222 COMPOSITE(T-CG) T3B2

(CD7544) 12 SEP 72 PAGE 524

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	682.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	BETA	0.000	AIRLON	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

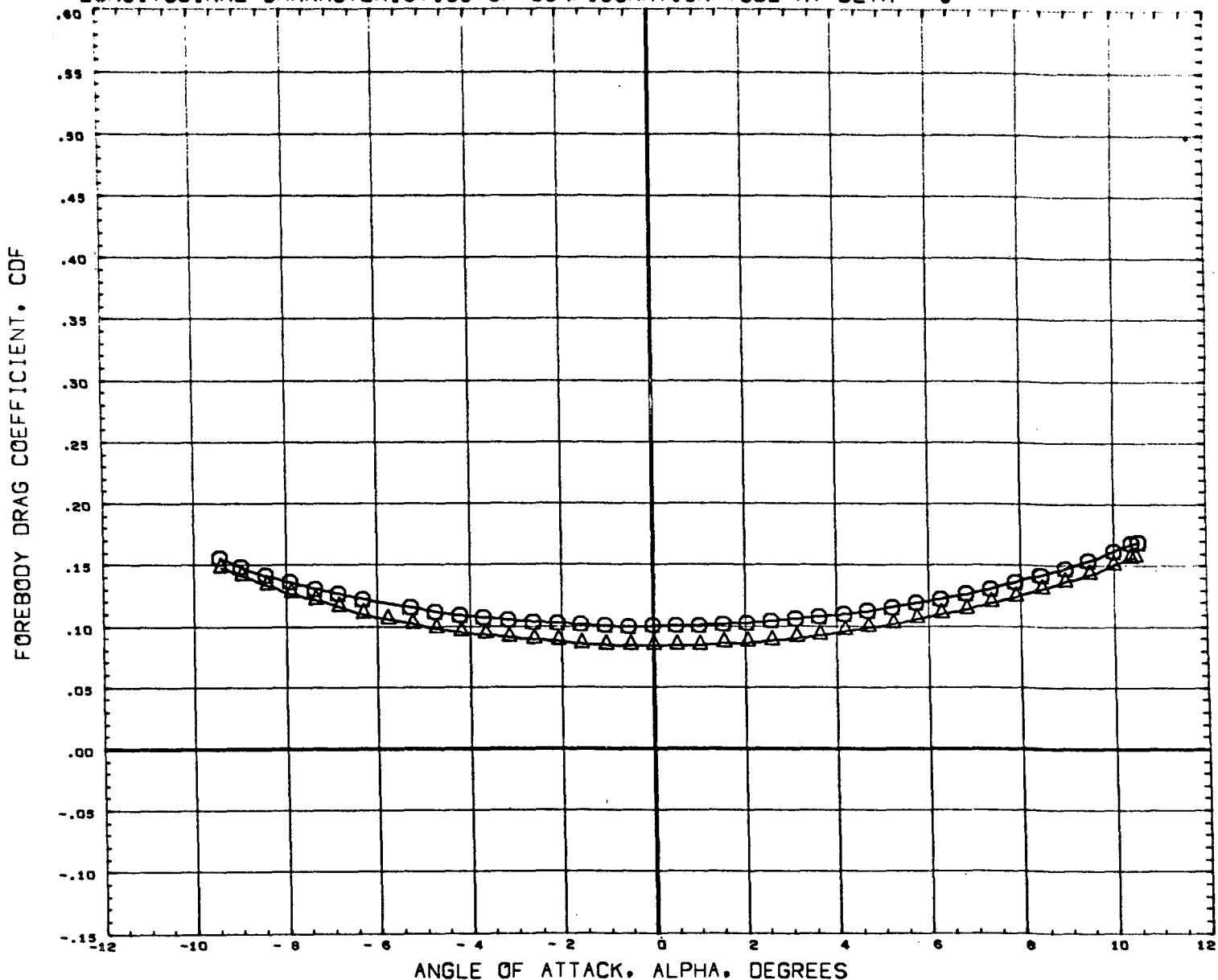
REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0050	

DATA HIST. CODE *GTV

MDAC S-222 COMPOSITE(T-CG) T3B2

(CD7544) 12 SEP 72 PAGE 525

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES			
\bullet	1.507	BETA	0.000	AILRDN	0.000
Δ	2.203	ELEVTR	0.000	RUDDER	0.000

DATA HIST. CODE *GTV

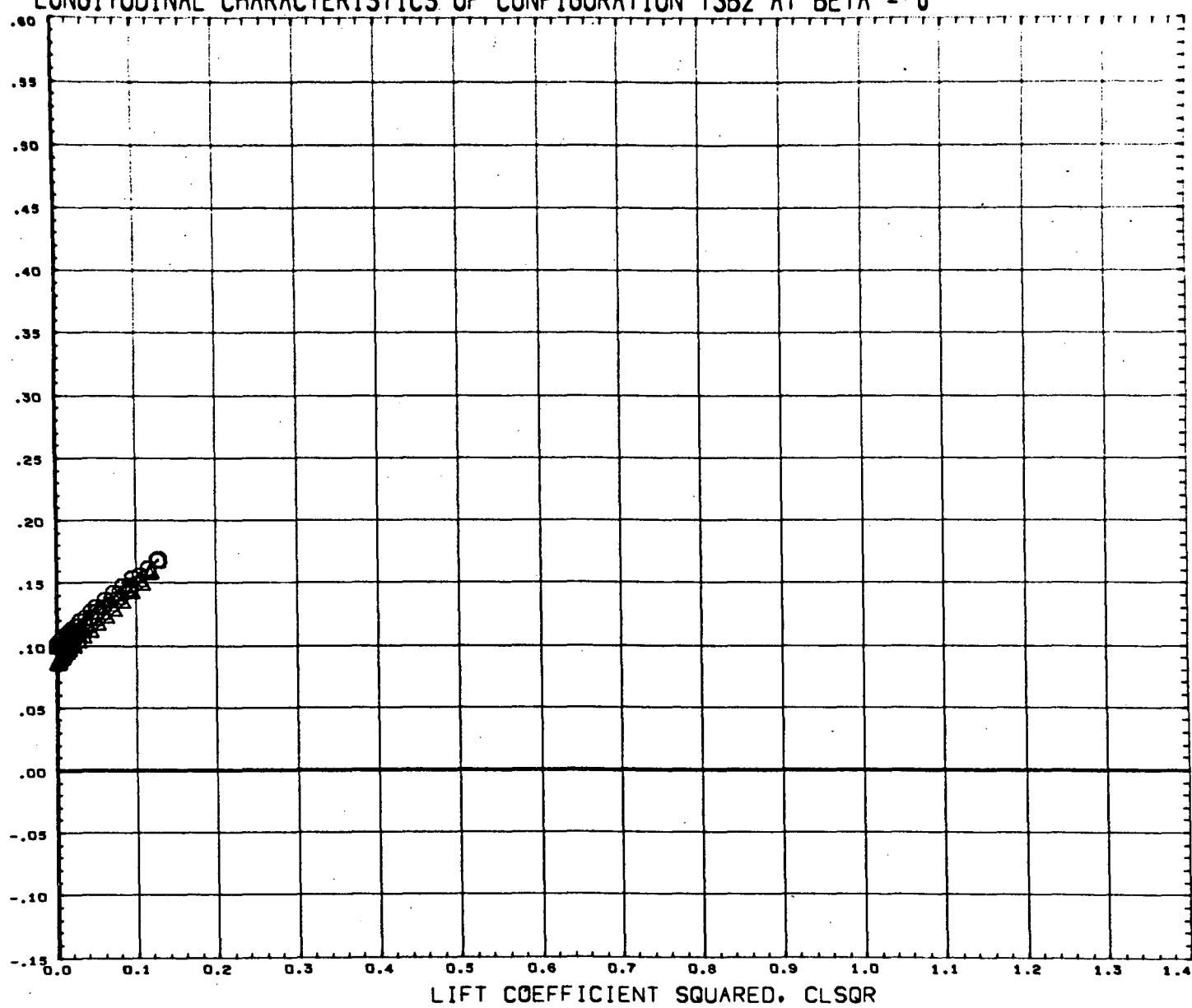
MDAC S-222 COMPOSITE(T-CG) T3B2

(CD7544) 12 SEP 72 PAGE 526

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	699.3004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0

FOREBODY DRAG COEFFICIENT, CDF



SYMBOL MACH PARAMETRIC VALUES
 O 1.507 BETA 0.000 AILRDN 0.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000

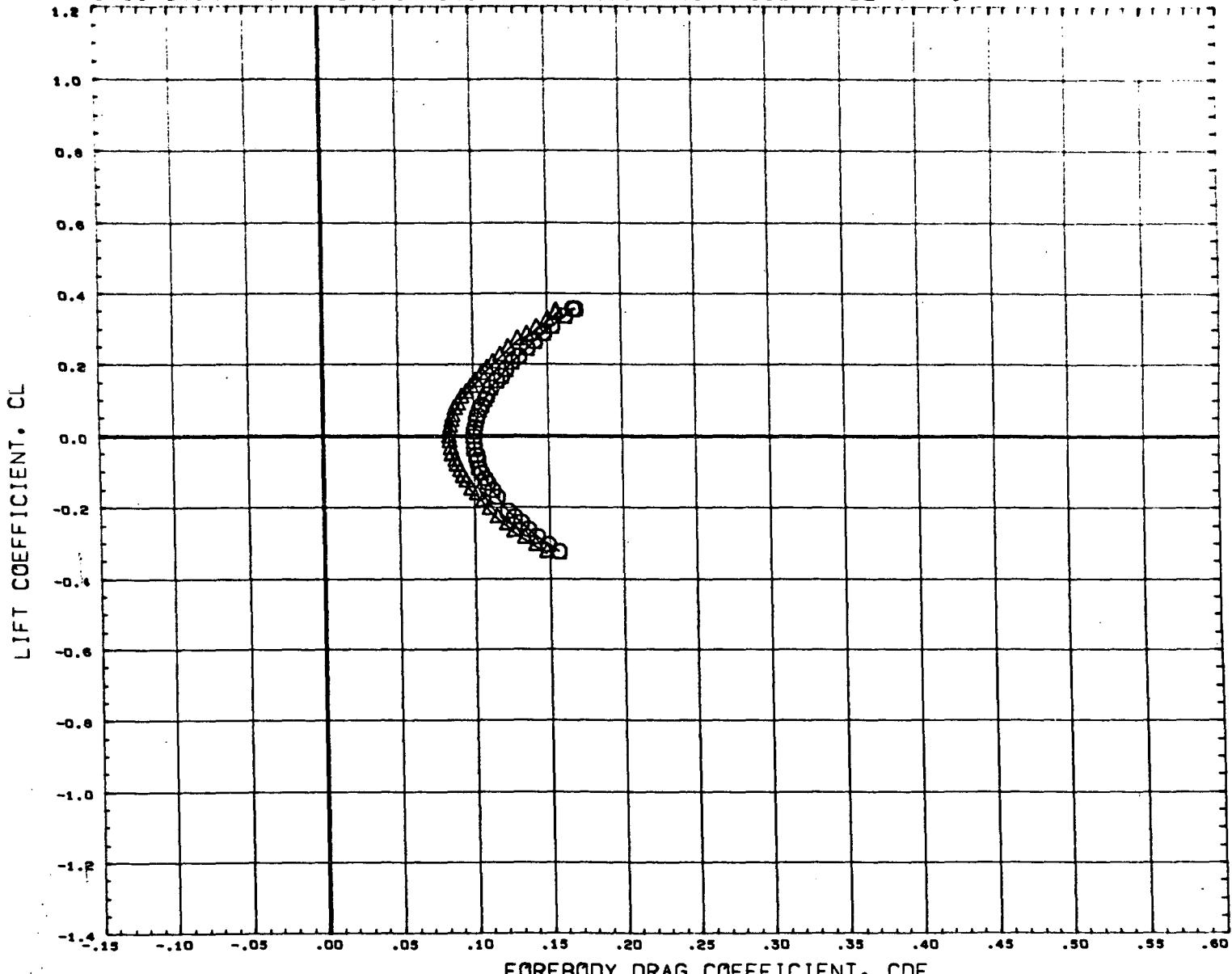
REFERENCE INFORMATION
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 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

DATA HIST. CODE *GTV

MDAC S-222 COMPOSITE(T-CG) T3B2

(CD7544) 12 SEP 72 PAGE 527

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES			
O	1.507	BETA	0.000	AILRON	0.000
A	2.203	ELEVTR	0.000	RUDDER	0.000

DATA HIST. CODE *GTV

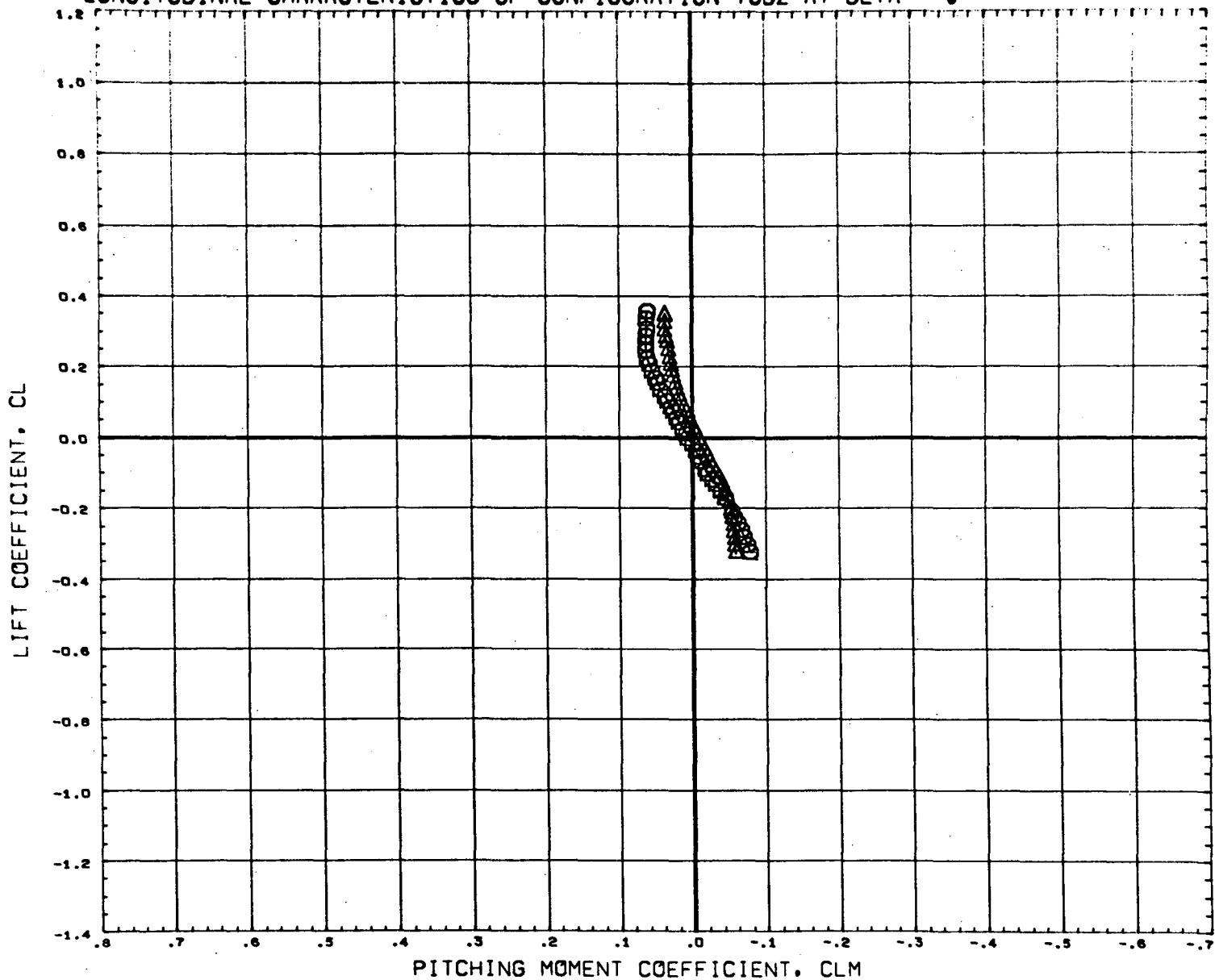
MDAC S-222 COMPOSITE(T-CG) T3B2

(CD7544) 12 SEP 72

PAGE 528

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

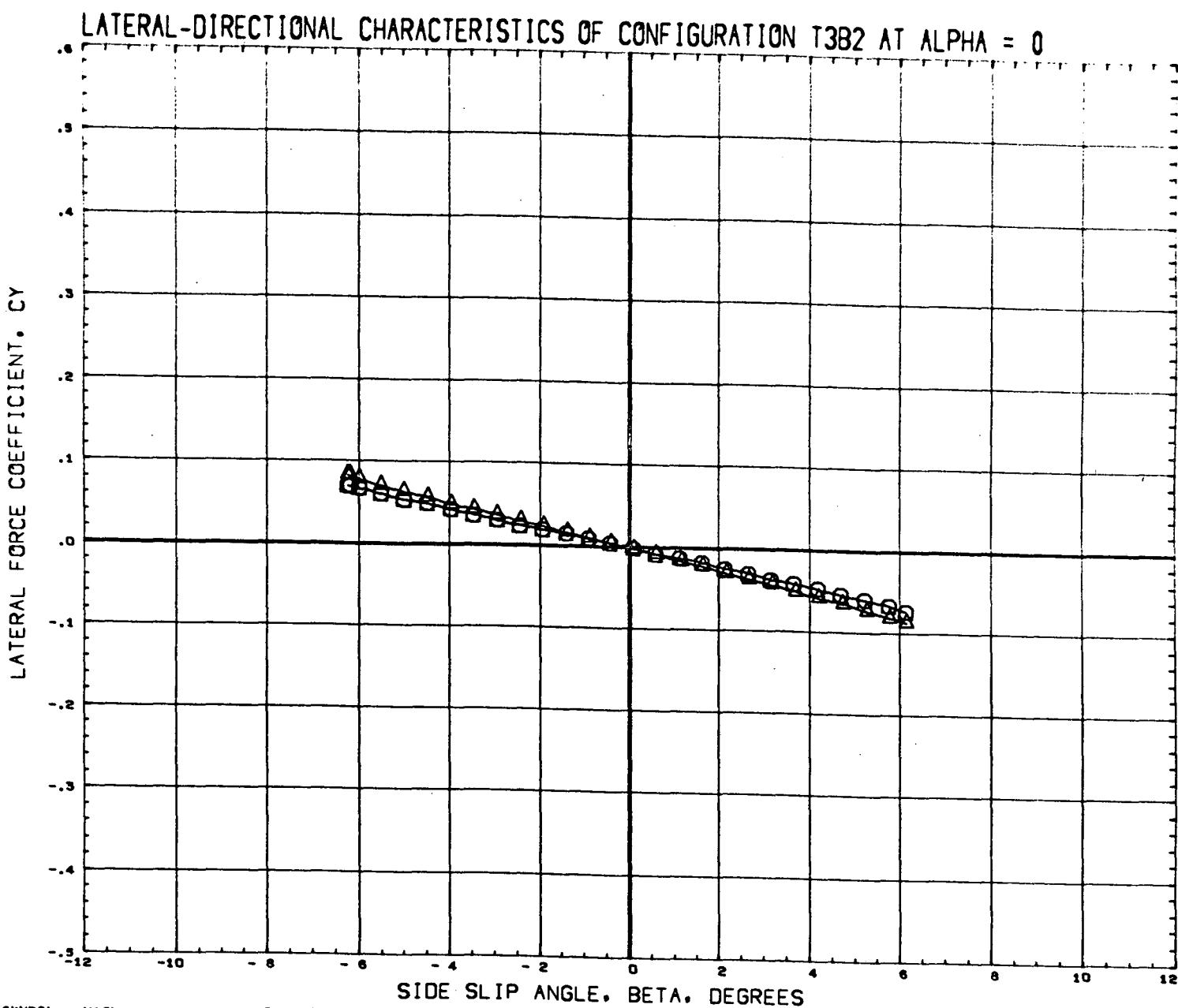
LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B2 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES			
O	1.507	BETA	0.000	ATLRON	0.000
△	2.203	ELEVTR	0.000	RUDDER	0.000

DATA HIST. CODE #GTV

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	



SYMBOL MACH PARAMETRIC VALUES

1.507 ALPHA 0.000 AILRDN 0.000
 2.203 ELEVTR 0.000 RUDDER 0.000

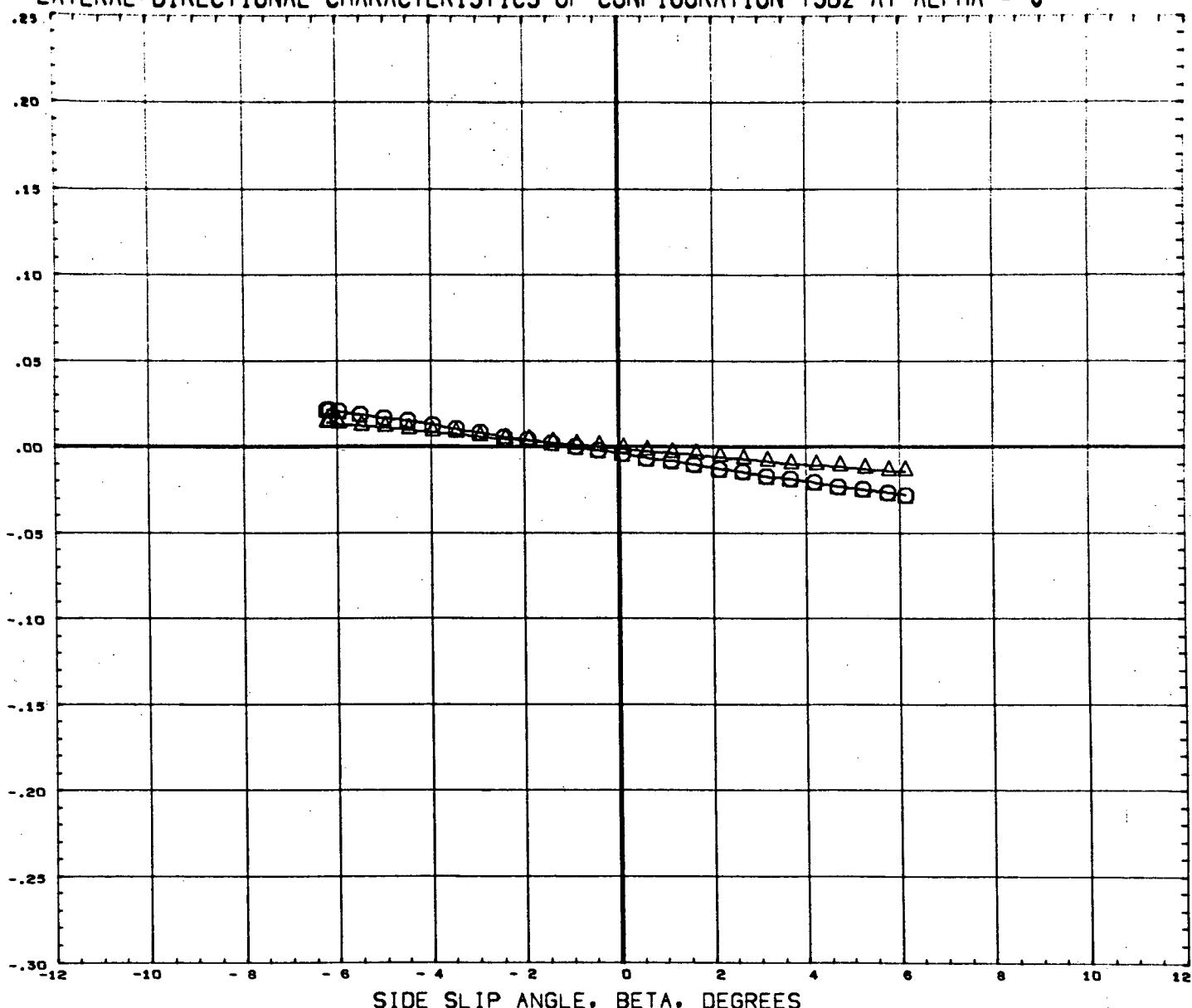
REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) T3B2

(RD7545) 17 MAR 72 PAGE 530

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T3B2 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL	MACH	PARAMETRIC VALUES			
O	1.507	ALPHA	0.000	AILRDN	0.000
△	2.203	ELEVTR	0.000	RUDDER	0.000

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

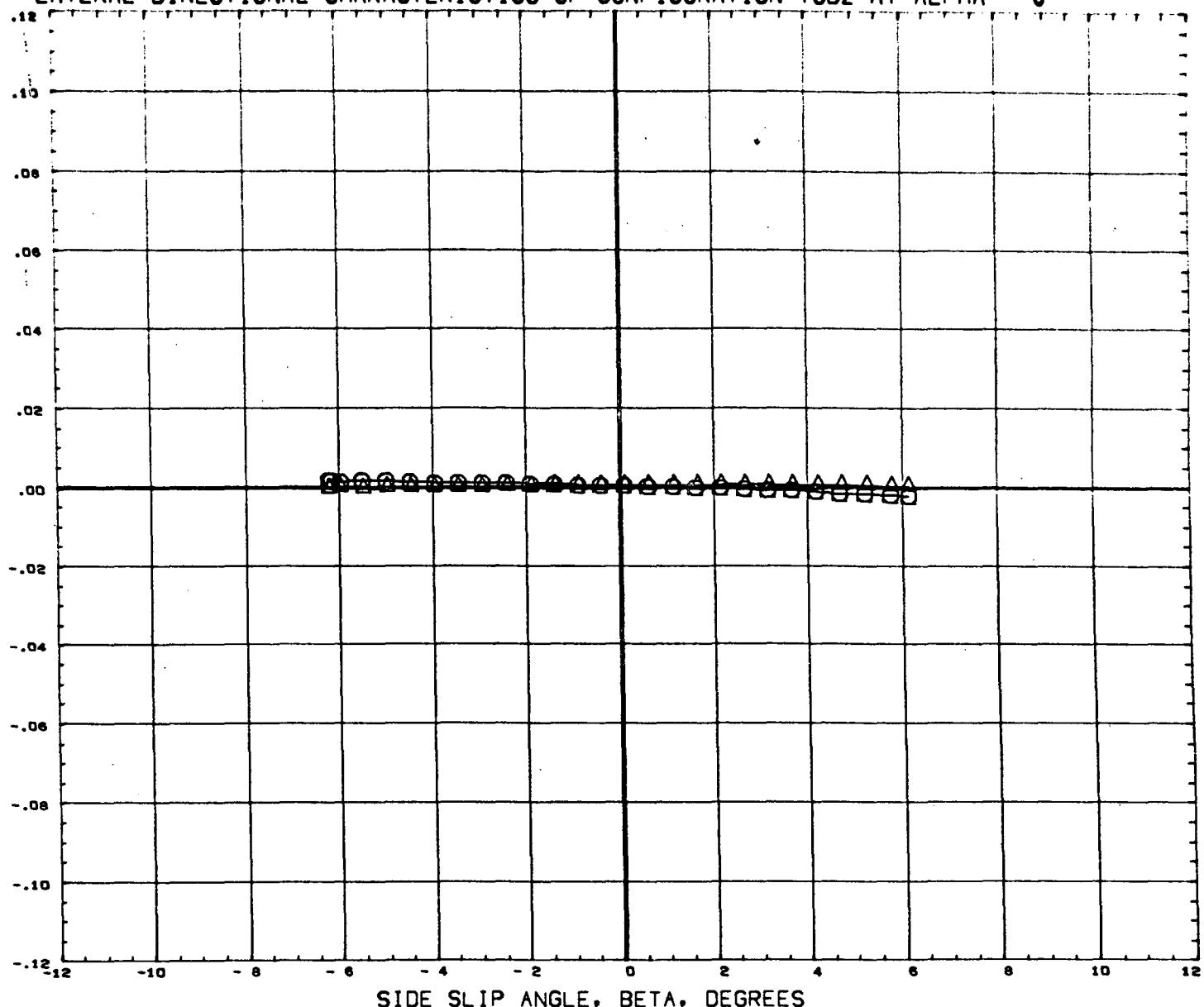
REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) T3B2

(RD7545) 17 MAR 72 PAGE 531

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T3B2 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT. CBL (BODY AXIS)



SYMBOL MACH PARAMETRIC VALUES
 Q 1.507 ALPHA 0.000 AILRDN 0.000
 2.203 ELEVTR 0.000 RUDDER 0.000

PARAMETRIC VALUES

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

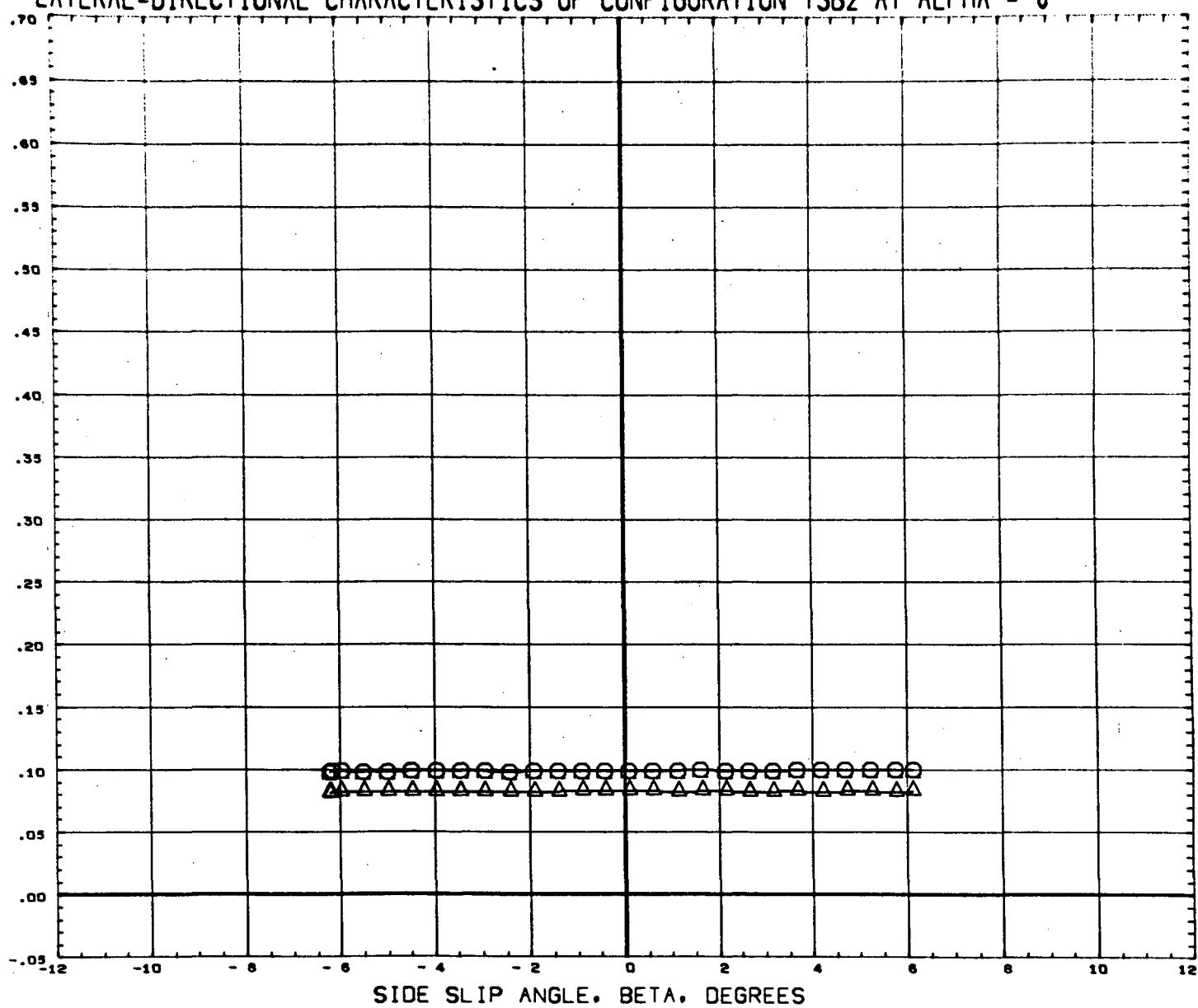
REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) T3B2

(RD7545) 17 MAR 72 PAGE 532

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T3B2 AT ALPHA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF



SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL MACH PARAMETRIC VALUES
 O 1.507 ALPHA 0.000 AILRDN 0.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000

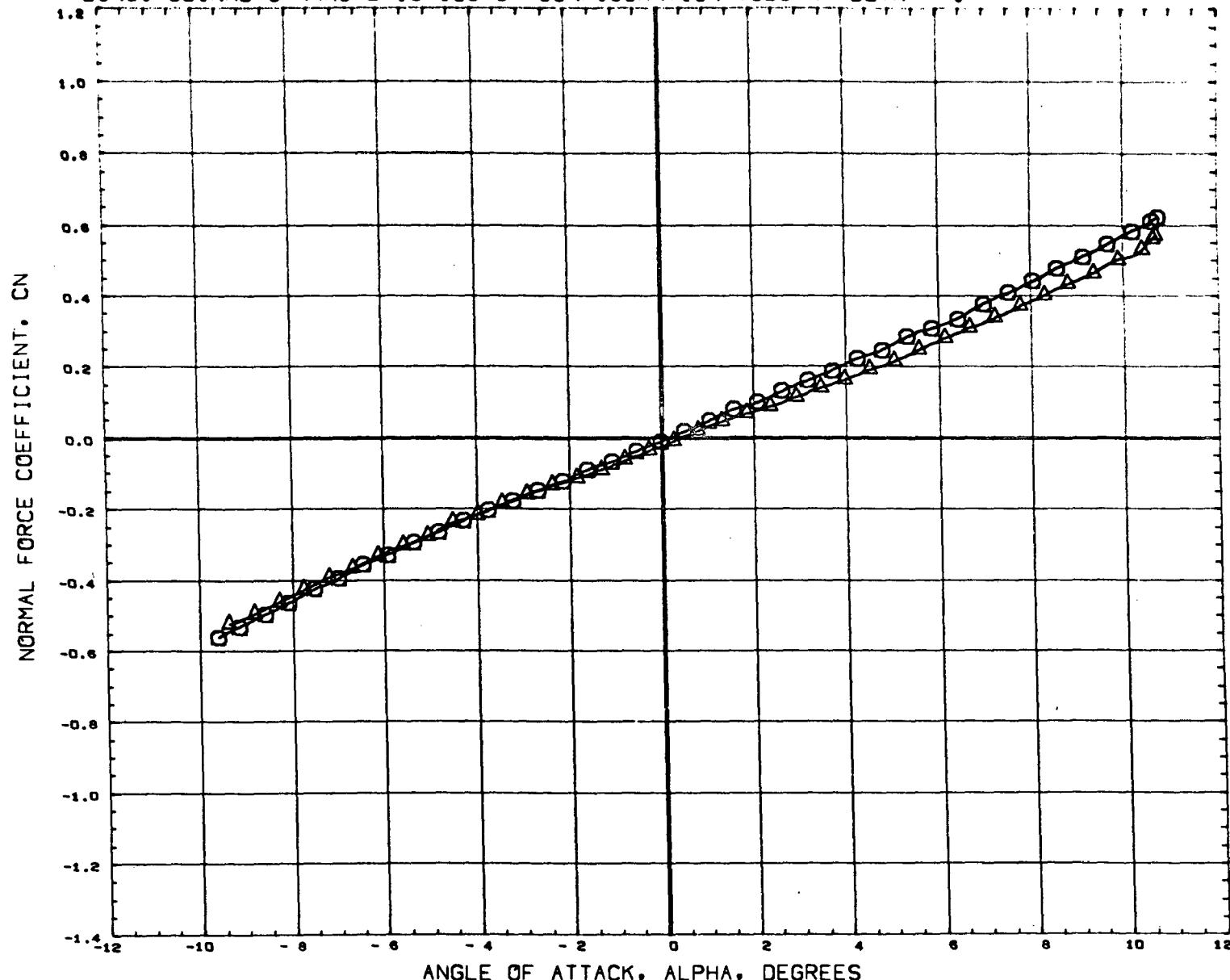
REFERENCE INFORMATION
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 BREF 882.0004 IN.
 XMRF 557.0004 IN.
 YMRF 0.0000 IN.
 ZMRF 200.0004 IN.
 SCALE 0.0060

REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) T3B2

(RD7545) 17 MAR 72 PAGE 533

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0



SYMBOL	MACH	PARAMETRIC VALUES		
	1.507	BETA	0.000	AILRDN 0.000
	2.203	ELEVTR	0.000	RUDDER 0.000

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	IN.

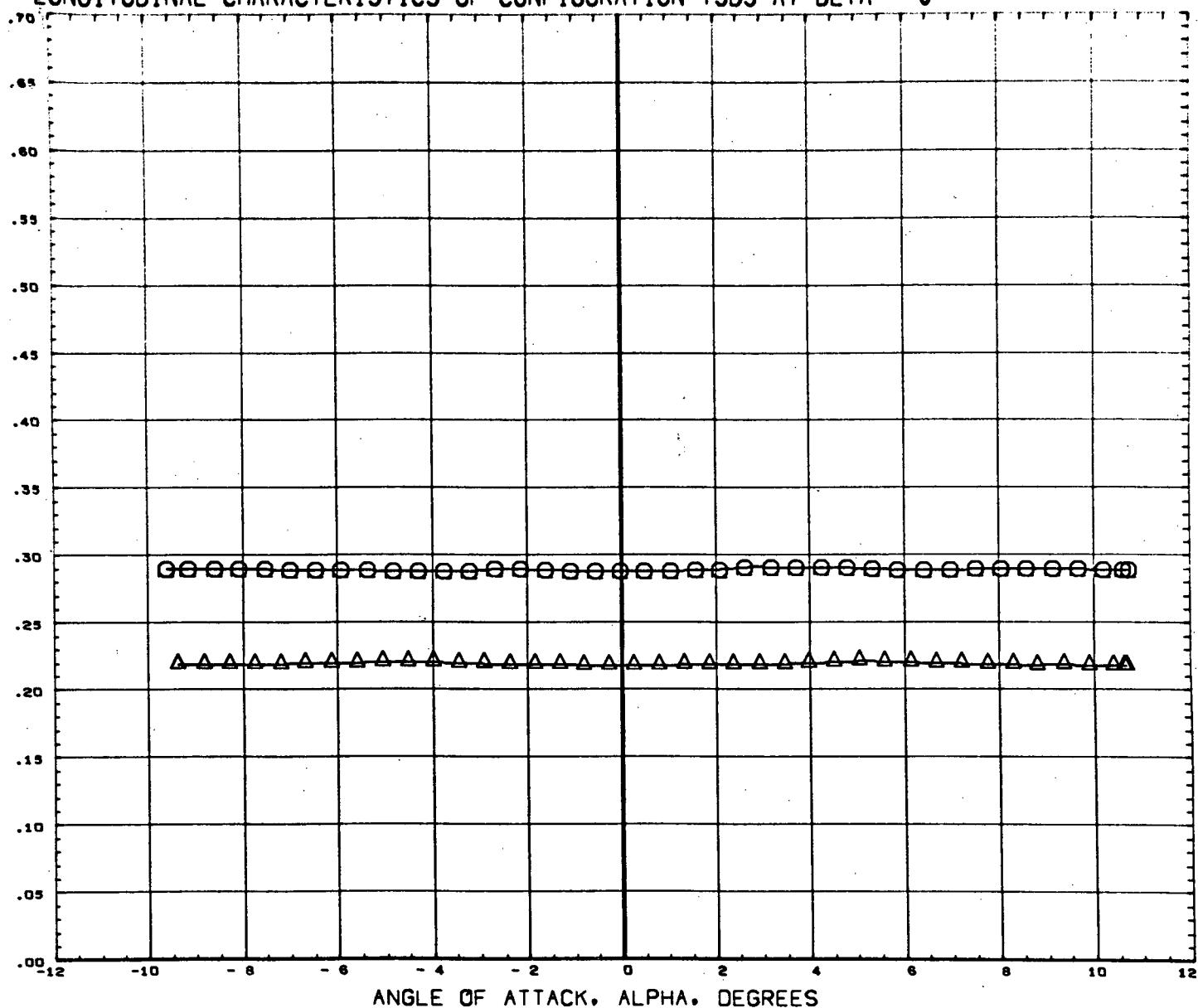
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T3B5

(CD7546) 12 SEP 72 PAGE 534

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0

AXIAL FORCE COEFFICIENT. CA



SYMBOL

MACH PARAMETRIC VALUES
1.507 BETA 0.000 AILRDN 0.000
2.203 ELEVTR 0.000 RUDDER 0.000

DATA HIST. CODE TV

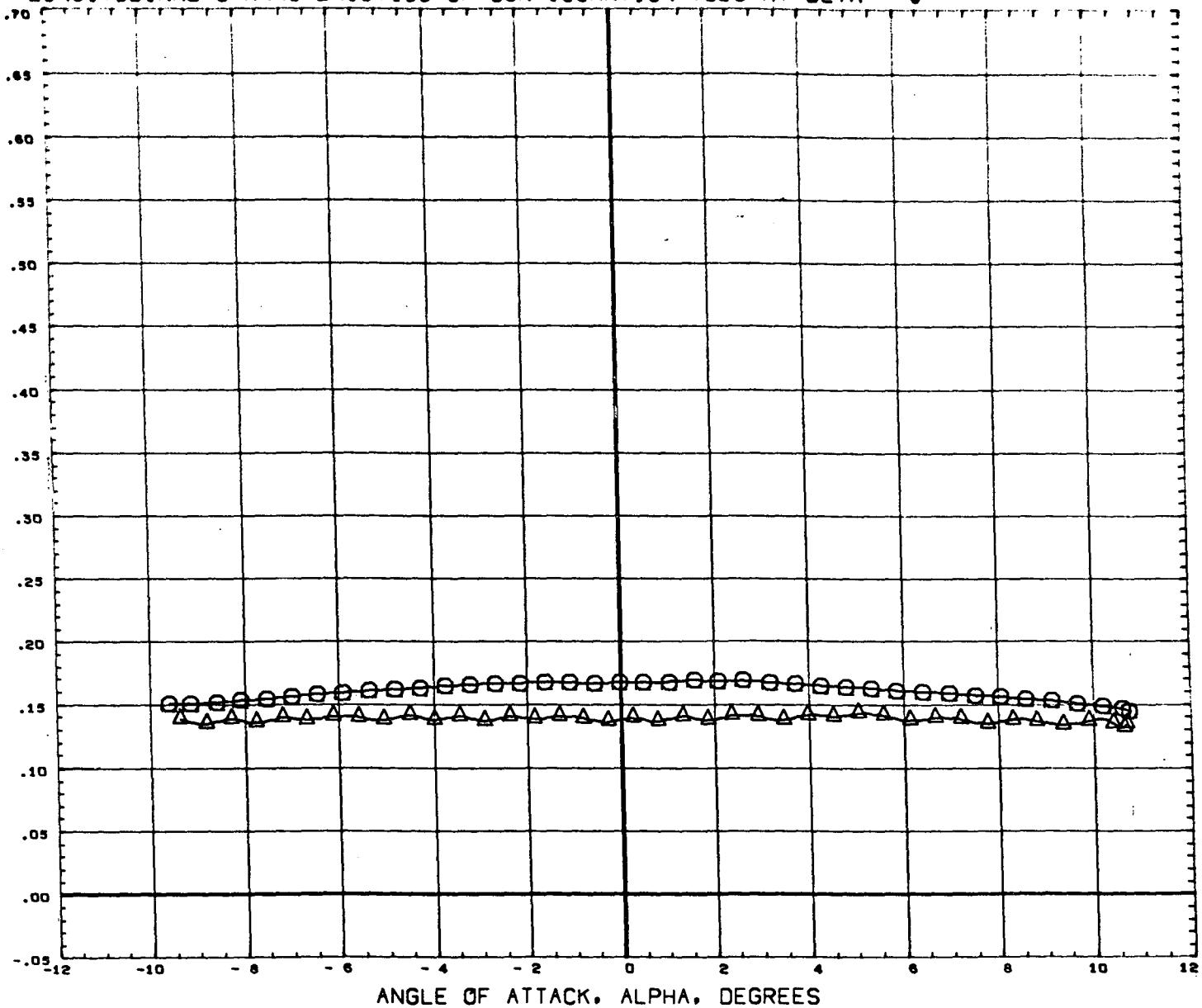
MDAC S-222 COMPOSITE(T-CG) T3B5

SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

(CD7546) 12 SEP 72 PAGE 535

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0

FOREBODY AXIAL FORCE COEFFICIENT, CAF



SYMBOL MACH PARAMETRIC VALUES
○ 1.507 BETA 0.000 AILRDN 0.000
△ 2.203 ELEVTR 0.000 RUDDER 0.000

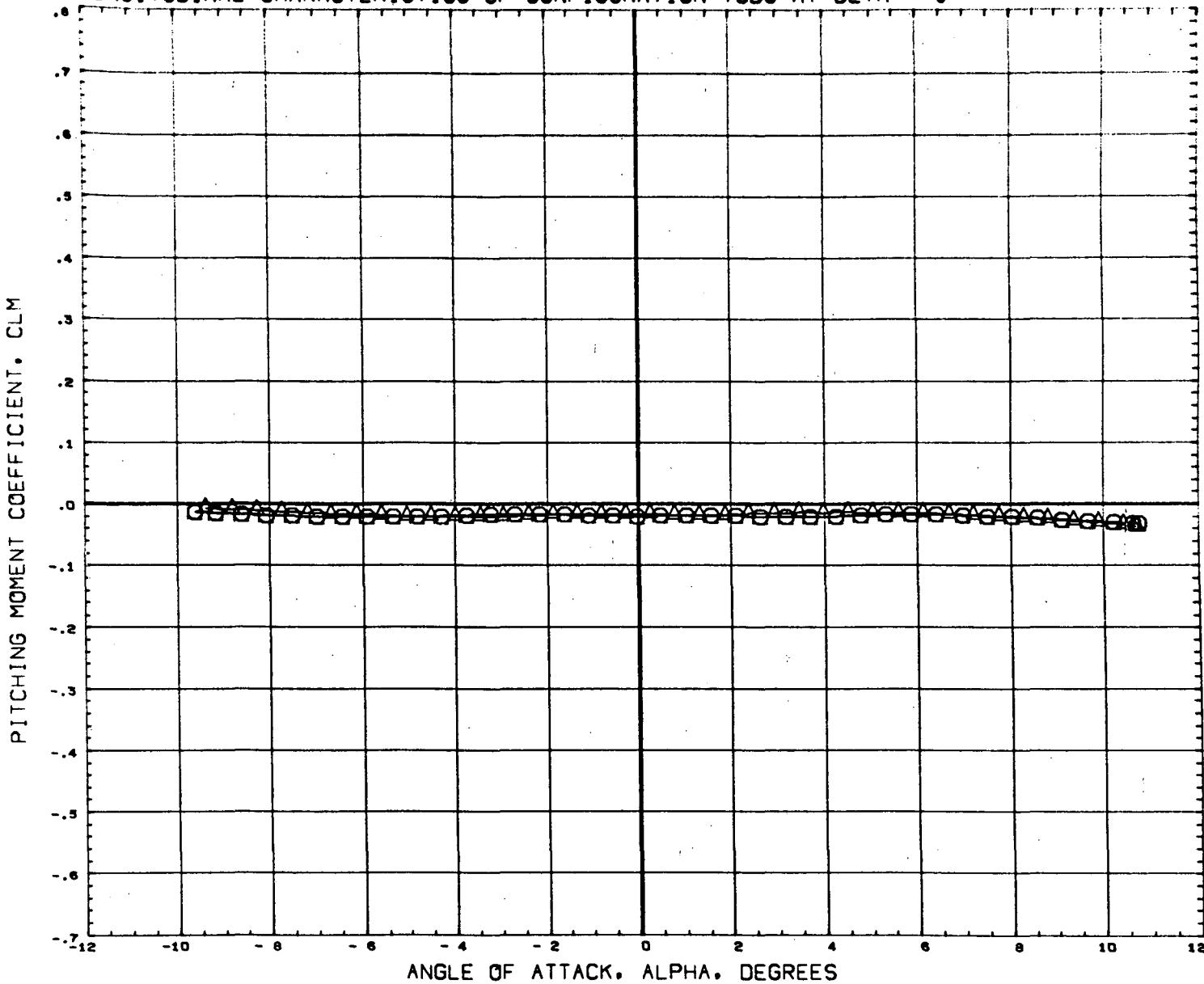
REFERENCE INFORMATION
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 BREF 882.0004 IN.
 XMRP 957.0004 IN.
 YMRF 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T3B5

(CD7546) 12 SEP 72 PAGE 536

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	BETA	0.000	AILRON	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

REFERENCE INFORMATION		
REF	3155.3040	SQ.FT.
REF	609.5004	IN.
REF	882.0004	IN.
MRP	557.0004	IN.
MRP	0.0000	IN.
MRP	200.0004	IN.
CALE	0.0000	

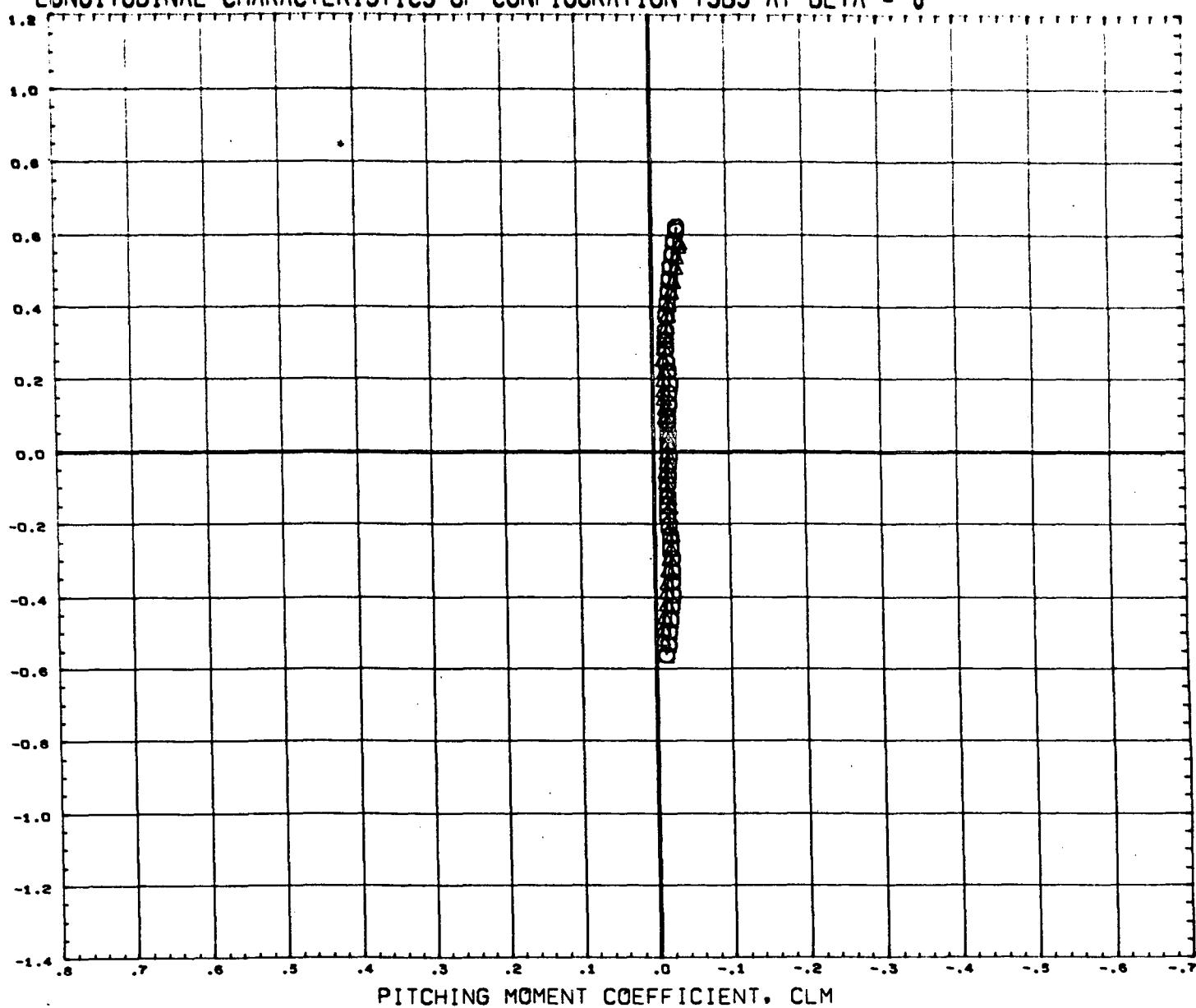
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T3B5

(CD7546) 12 SEP 72 PAGE 537

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0

NORMAL FORCE COEFFICIENT, CN



SYMBOL	MACH	PARAMETRIC VALUES			
O	1.507	BETA	0.000	AILRDN	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

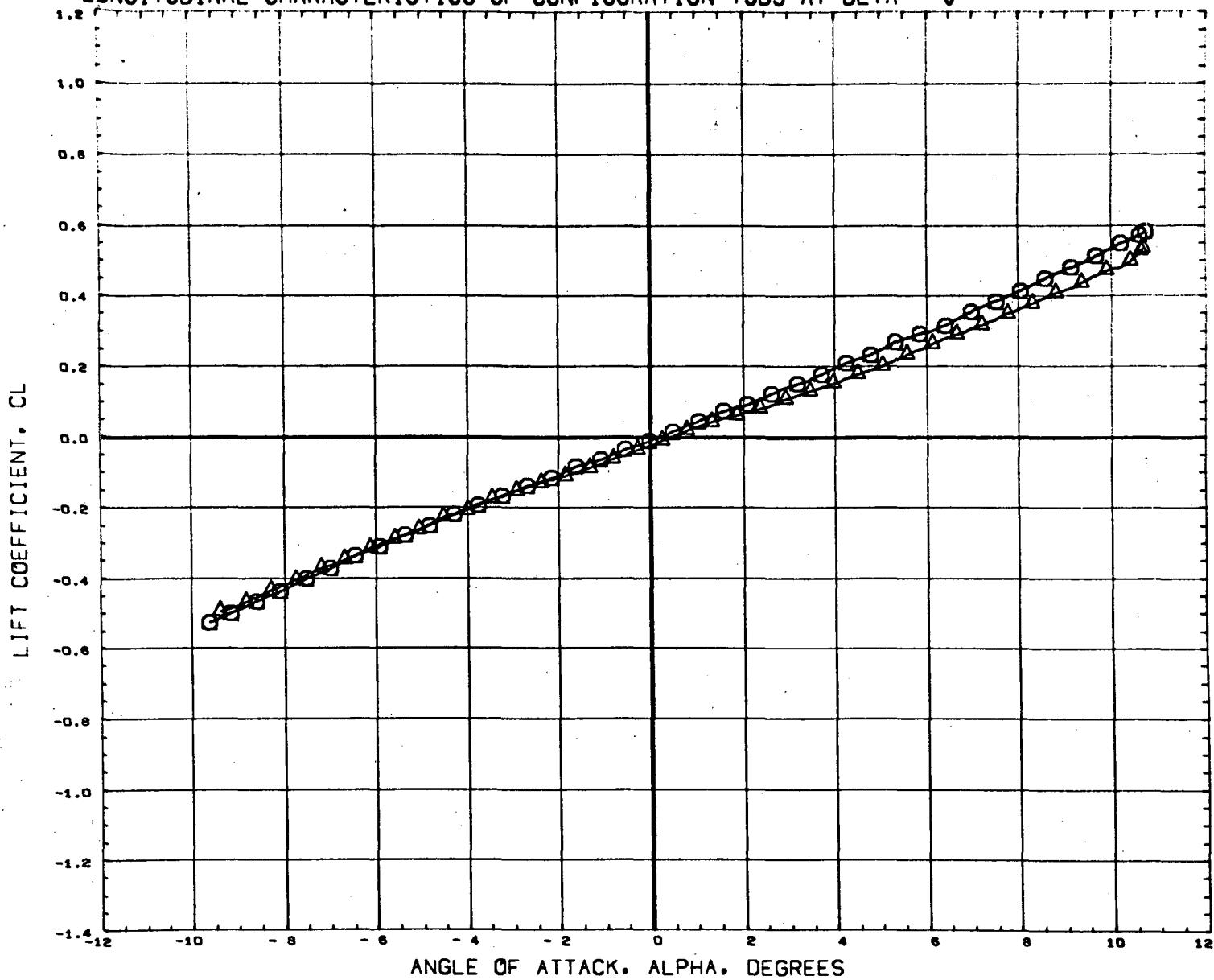
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T3B5

(CD7546) 12 SEP 72

PAGE 538

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0

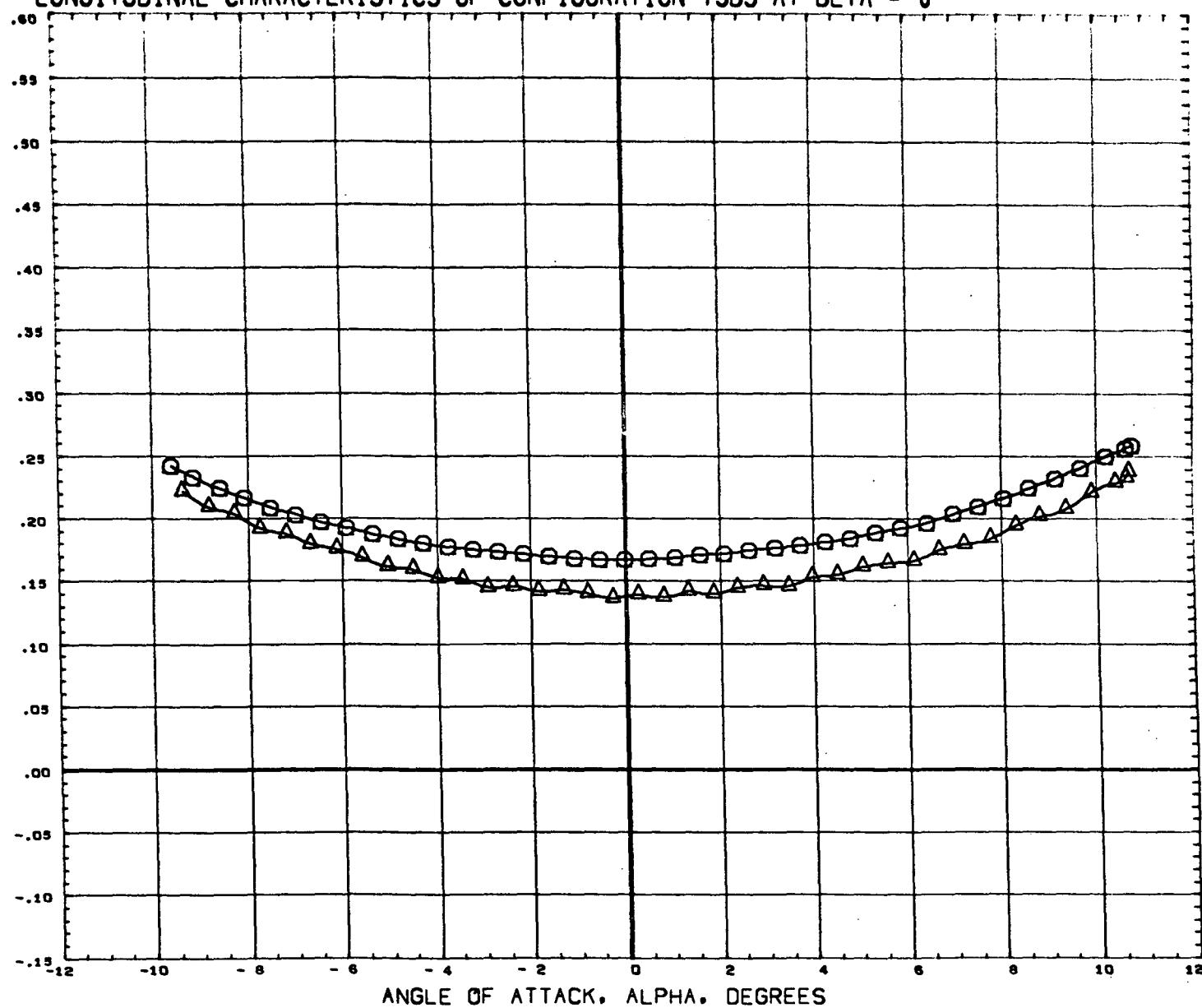


SYMBOL MACH PARAMETRIC VALUES
 1.507 BETA 0.000 AILRDN 0.000
 2.203 ELEVTR 0.000 RUDDER 0.000

DATA HIST. CODE TV

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	BETA	0.000	AIRRON	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

REFERENCE INFORMATION		
SREF	3135.3040	SQ.FT.
LREF	609.5004	IN.
BREF	.882.0004	IN.
XMRP	.537.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

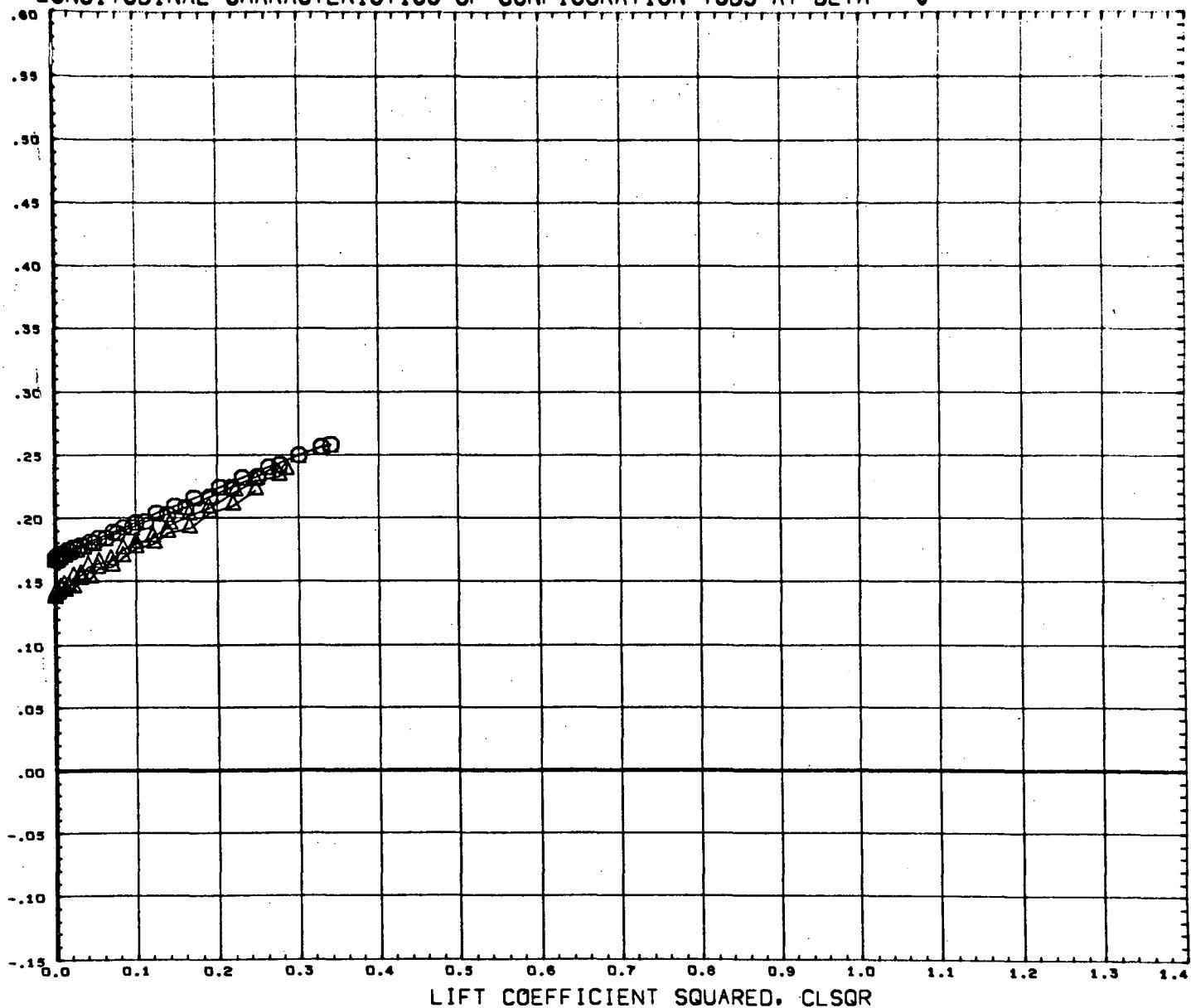
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T3B5

(CD7546) 12 SEP 72 PAGE 540

FOREBODY DRAG COEFFICIENT. CDF

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0



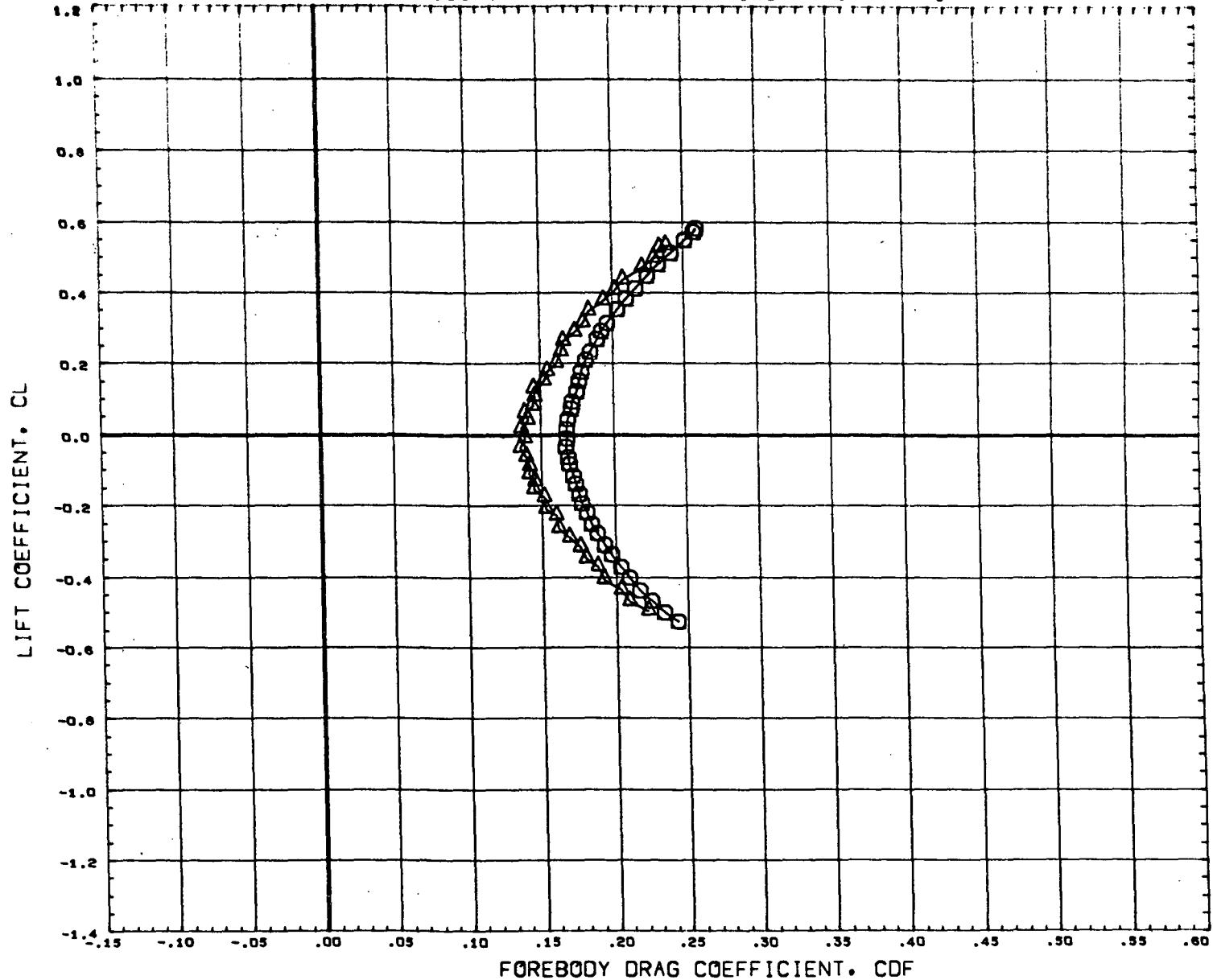
SYMBOL	MACH	PARAMETRIC VALUES			
O	1.507	BETA	0.000	AILRDN	0.000
△	2.203	ELEVTR	0.000	RUDDER	0.000

DATA HIST. CODE TV

LIFT COEFFICIENT SQUARED. CLSQR

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0



SYMBOL	MACH		PARAMETRIC VALUES	
	1.507	BETA	0.000	AILRDN
	2.203	ELEVTR	0.000	RUDER

REFERENCE INFORMATION		
REF	3155.3040	SQ.FT.
REF	609.5004	IN.
REF	882.0004	IN.
MRP	557.0004	IN.
MRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

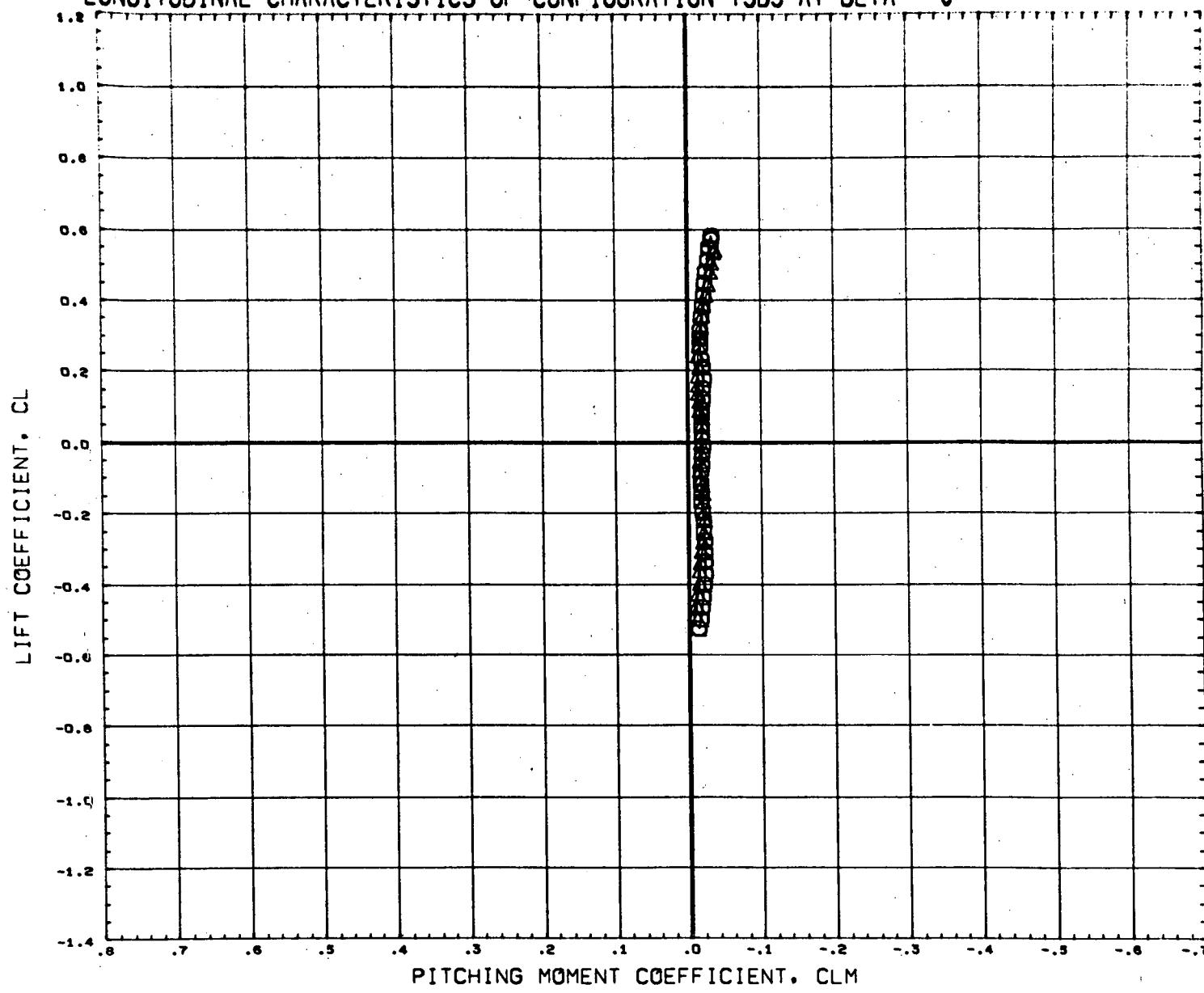
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T3B5

(CD7546) 12 SEP 72

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LONGITUDINAL CHARACTERISTICS OF CONFIGURATION T3B5 AT BETA = 0



SYMBOL MACH PARAMETRIC VALUES
 Δ 1.507 BETA 0.000 AILRDN 0.000
 2.203 ELEVTR 0.000 RUDDER 0.000

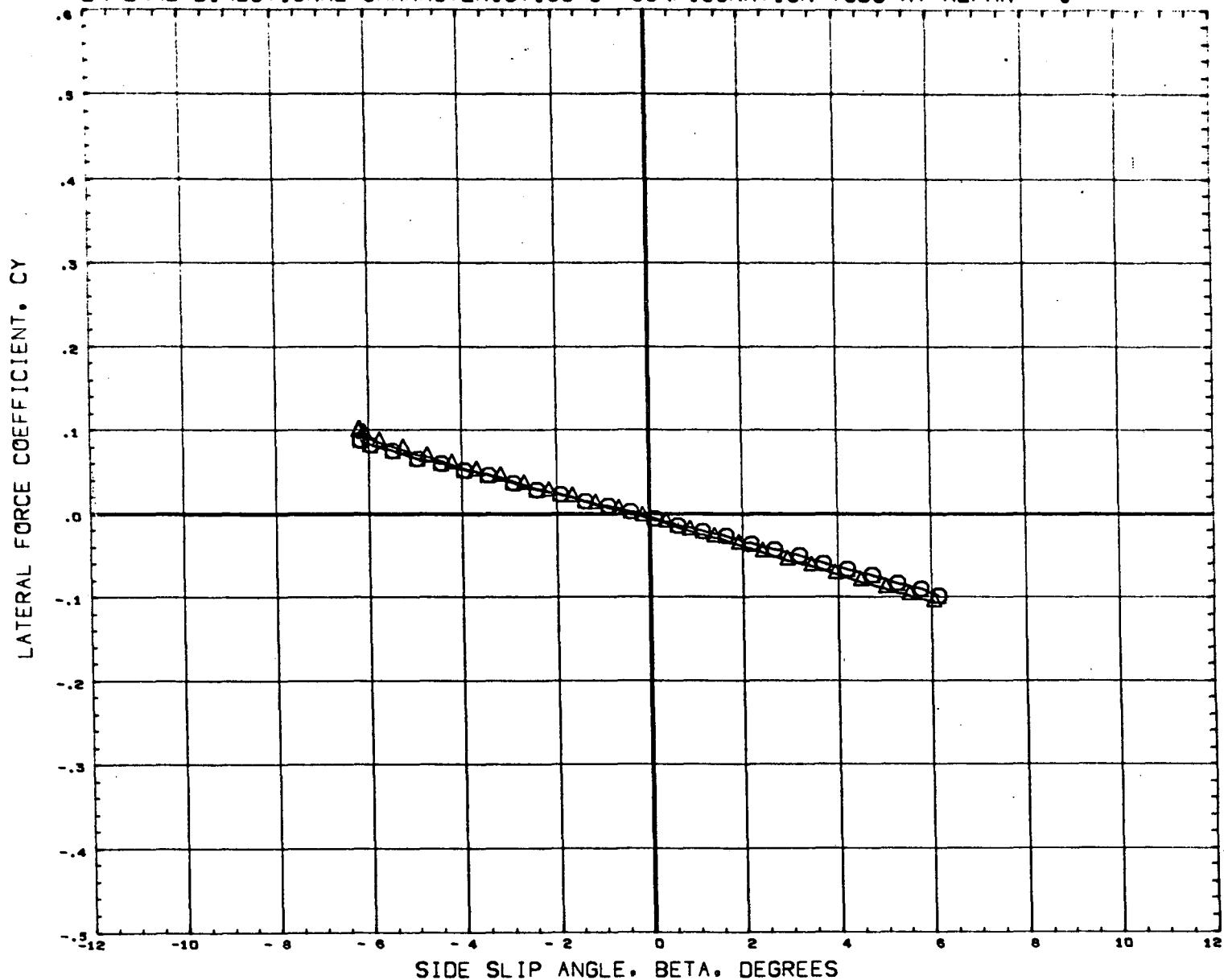
DATA HIST. CODE TV

MDAC S-222 COMPOSITE(T-CG) T3B5

(CD7546) 12 SEP 72 PAGE 543

REFERENCE INFORMATION		
SREF	3153.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T3B5 AT ALPHA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	ALPHA	0.000	AIRLON	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	682.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0050	

REFERENCE FILE

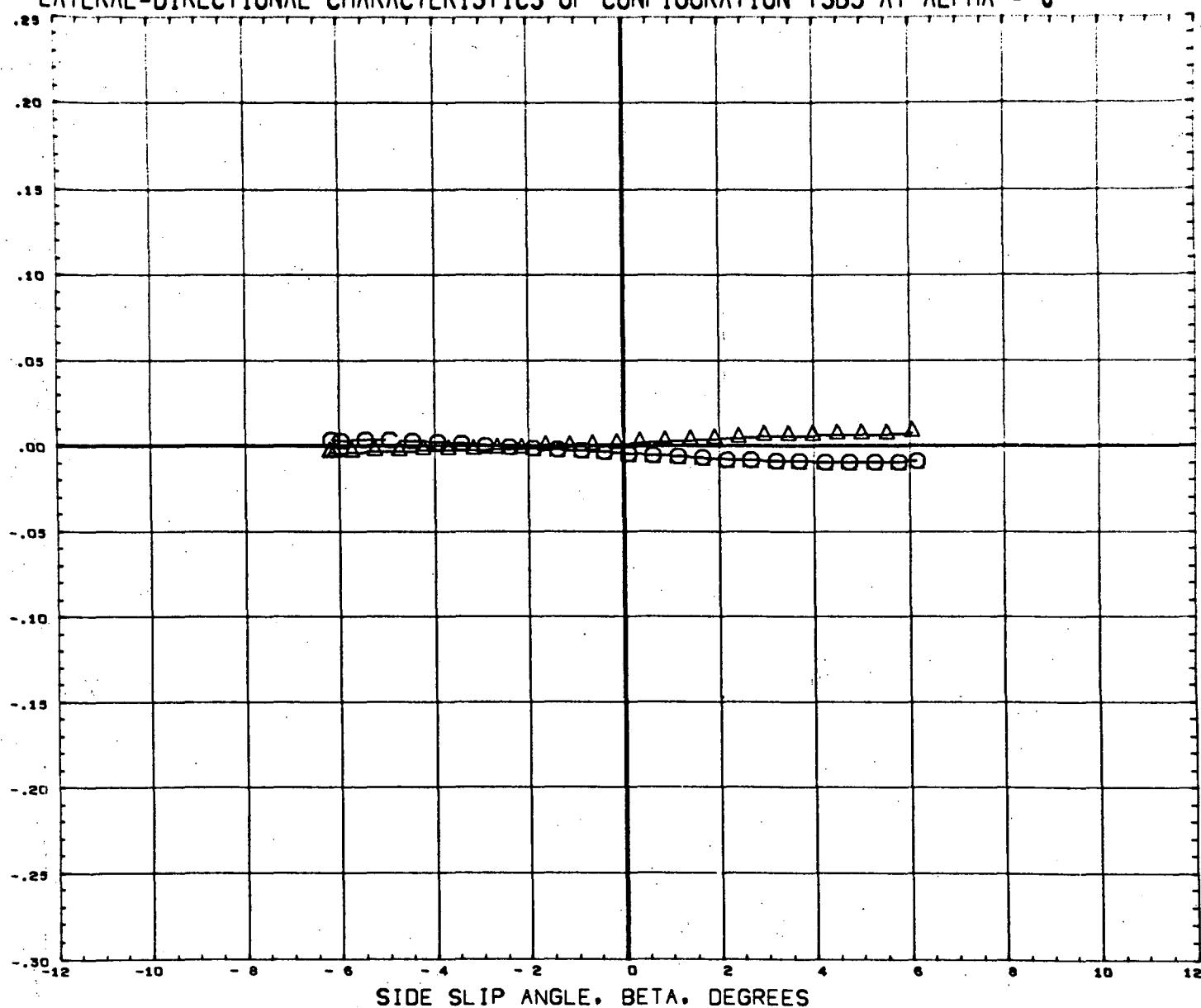
MDAC S-222 COMPOSITE(T-CG) T3B5

(RD7547) 17 MAR 72

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LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T3B5 AT ALPHA = 0

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL MACH PARAMETRIC VALUES
 O 1.507 ALPHA 0.000 AILRDN 0.000
 △ 2.203 ELEVTR 0.000 RUDDER 0.000

REFERENCE INFORMATION
 SREF 3155.3040 SQ.FT.
 LREF 609.5004 IN.
 BREF 882.0004 IN.
 XMRP 557.0004 IN.
 YMRP 0.0000 IN.
 ZMRP 200.0004 IN.
 SCALE 0.0060

REFERENCE FILE

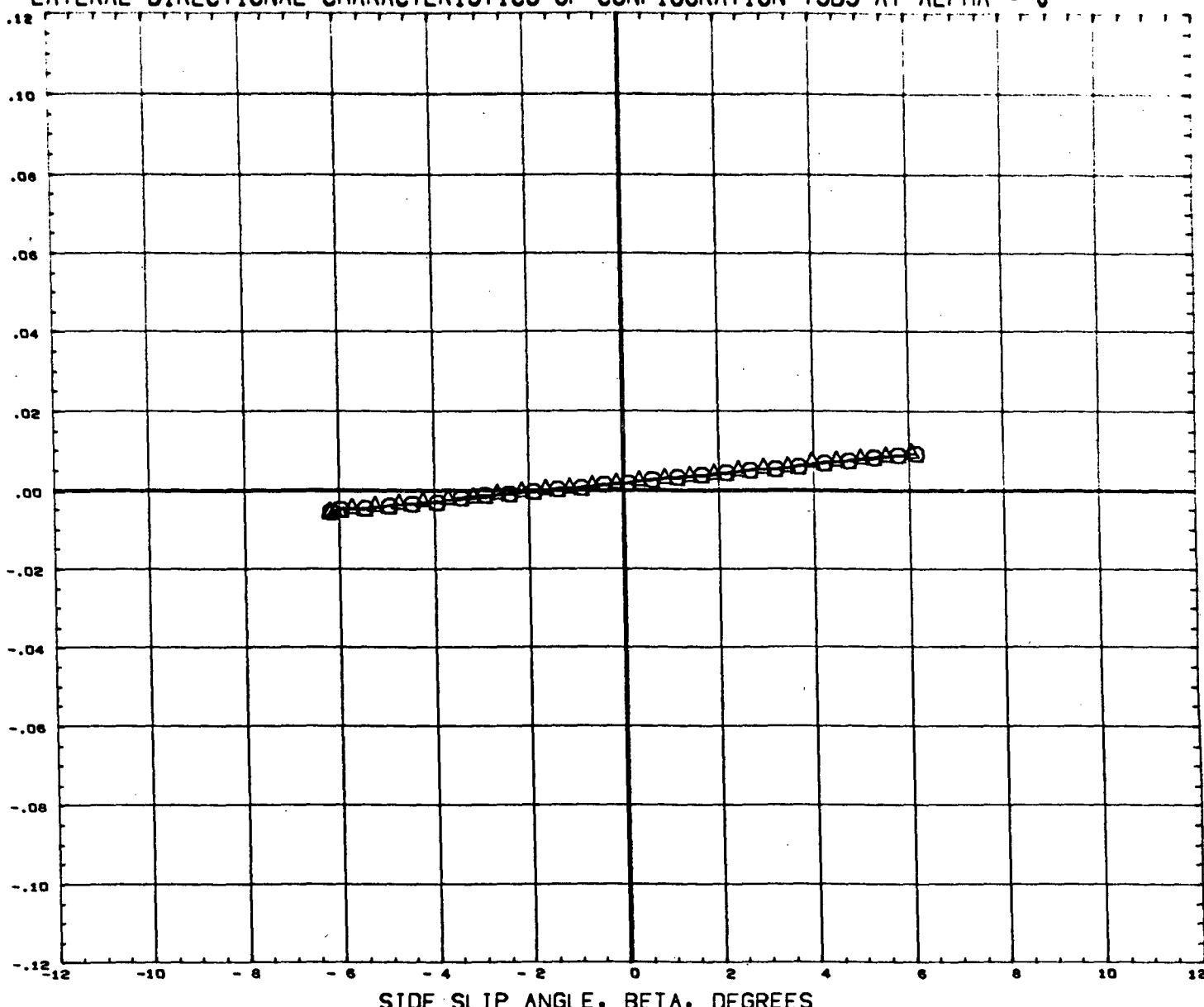
MDAC S-222 COMPOSITE(T-CG) T3B5

(RD7547) 17 MAR 72

PAGE 545

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T3B5 AT ALPHA = 0

ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



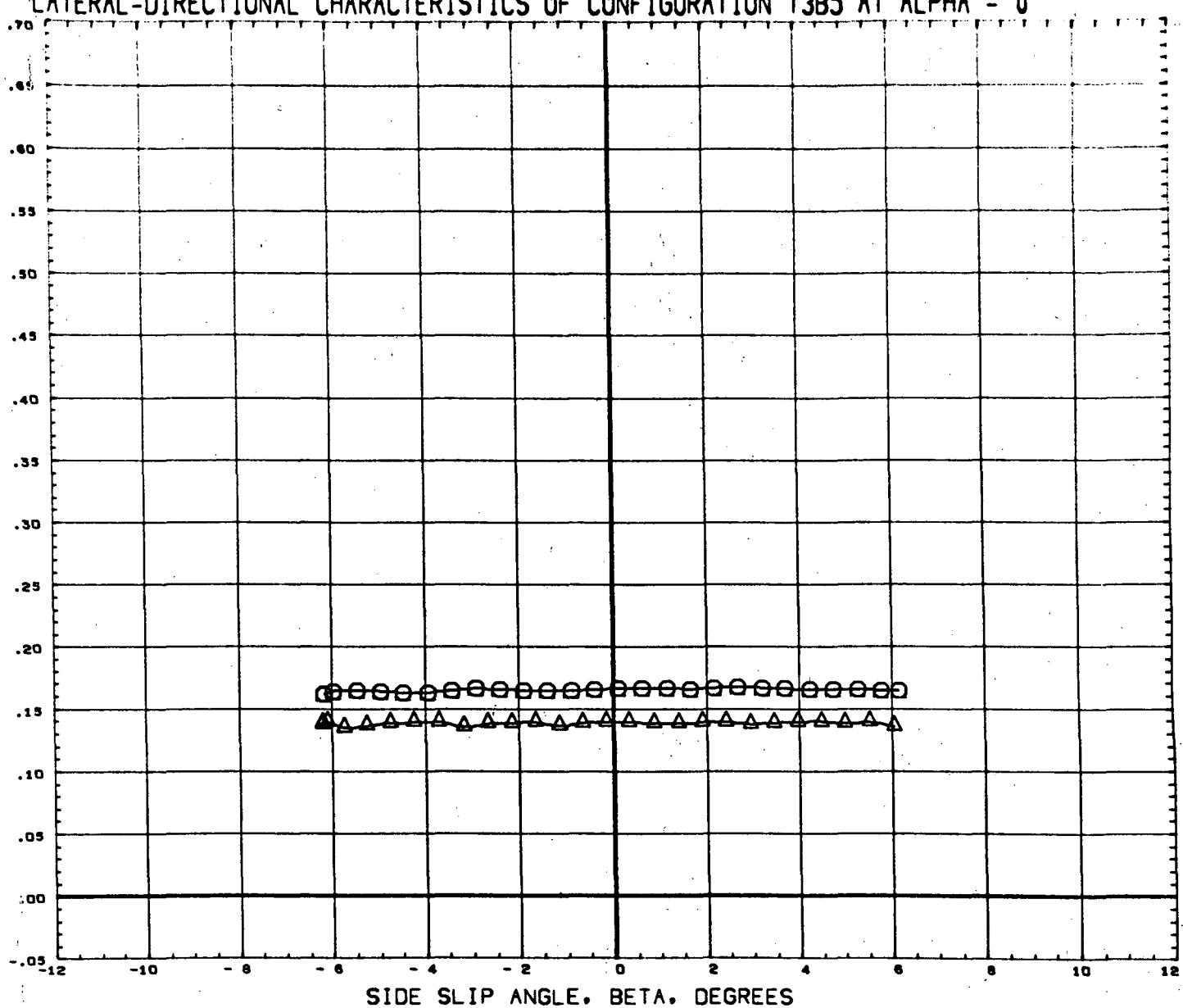
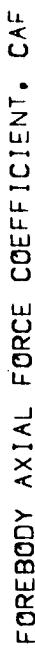
SIDE SLIP ANGLE, BETA, DEGREES

SYMBOL	MACH	PARAMETRIC VALUES
1.507	ALPHA	0.000
2.203	ELEVTR	0.000
	AIRLON	0.000
	RUDDER	0.000

REFERENCE INFORMATION		
SREF	3155.3040	SQ.FT.
LREF	609.5004	IN.
BREF	882.0004	IN.
XMRP	557.0004	IN.
YMRP	0.0000	IN.
ZMRP	200.0004	IN.
SCALE	0.0060	

REFERENCE FILE

LATERAL-DIRECTIONAL CHARACTERISTICS OF CONFIGURATION T3B5 AT ALPHA = 0



SYMBOL	MACH		PARAMETRIC VALUES		
	1.507	ALPHA	0.000	AIRLON	0.000
	2.203	ELEVTR	0.000	RUDDER	0.000

REFERENCE INFORMATION		
REF	3155.3040	SQ.FT.
REF	609.5004	IN.
REF	882.0004	IN.
MRP	557.0004	IN.
MRP	0.0000	IN.
MRP	200.0004	IN.
CALE	0.0000	IN.

REFERENCE FILE

MDAC S-222 COMPOSITE(T-CG) T3B5

(RD7547) 17 MAR 72 PAGE 547